### IP-ASI Transcoder - IPAT

**BLONDER TONGUE**

The IPAT (IP-ASI transcoder) is a bi-directional IP-ASI transcoder that accepts MPEG-2/4-encoded input streams in 1000BASE-T Ethernet (GbE) and ASI formats simultaneously. Two factory-installed optional modules (the RF IN and the RF OUT) allow input/output in QAM and BVSF formats rendering the product suitable for a wider range of applications. GbE input is transcoded to ASI output while ASI input is transcoded to GbE output. An integrated Web server provides comprehensive GUI-based local and remote control/monitoring through any standard Web browser via a front-panel 10/100BASE-T interface.

**FEATURES**
- ASI input/output interface
- Supports Single or Multiprotocol Transport Services (SPTS or MPTS)
- Performs PCR (Program Clock Reference) correction
- Allows null packet insertion and deletion
- GbE input/output interface
- Provides robust protection against IP network jitter and delay
- Performs PCR (Program Clock Reference) replacement
- Supports uni- and multicast thru RTP/UDP protocols
- Supports IPv4, ARP, IGMPv2 and ICMP protocols

### SD/AV Encoder QAM - SD/AV10E-QAM

**BLONDER TONGUE**

The SD10E-QAM (SD Encoder - QAM) accepts up to 10 inputs in SD-SDI (480i) and NTSC baseband audio/video formats. The encoder, when applicable, digitizes and MPEG-2 encodes each into a standard-definition stream (SD-480i), and then multiplexes the resulting 10 streams into one output in QAM format in the 5.75-864 MHz range (CATV sub-band channels T7-T14 and standard channels 2-135). The encoder supports Dolby Digital AC-3 encoding and Closed Captioning.

Additionally, two ancillary output interfaces are available: one in ASI format, and one in DVI format for real-time and simultaneous preview of all the 10 multiplexed streams. A front-panel RF test point allows for monitoring/testing of the QAM output without service interruption. Comprehensive remote monitoring and control is accomplished using any standard Web browser via a front-panel 10/100BASE-T Ethernet connection. The AV10E-QAM is identical to SD10E-QAM, but it doesn’t support the SD-SDI input. It accepts 10 inputs only in NTSC baseband audio/video format.

**FEATURES**
- Digitizes, encodes, and multiplexes up to 10 SD-SDI (480i) and NTSC baseband audio/video inputs into one digital QAM output
- Compatible with NTSC analog format and ITU Annex A and B digital QAM formats
- Comprehensive GUI-based monitoring and control menu via Web browser
- Allows preview of all 10 streams via a front-panel ancillary DW output
- Provides a front-panel RF test point (at 20 dB below primary QAM output)
- Provides sub-band QAM output channels T7-T14 (5.75-53.75 MHz)
- Allows any combination of inputs, for example: 6x SD and 4x AV
- Real-time Dolby Digital (AC-3) audio encoding
- Provides a rear-panel ancillary ASI output
- Equipped with auto-sensing EAS input
- Supports EIA-608 Closed Captioning
- Supports PSIP configuration

### ATSC/QAM Demodulator - AQD

**BLONDER TONGUE**

The AQD accepts one input in BVSF (digital off-air) or QAM (digital cable) format and delivers one output in NTSC composite analog audio/video format. The AQD allows delivering of a digital off-air program to viewers with an analog TV set. It also allows an operator to cherry-pick channels from a “clear” QAM cable lineup.

The AQD PLUS is the same as AQD, but includes the AFD broadcast package. The AFD (active format description) is a standard set of codes embedded in the video stream and used by digital television broadcasters to optimally display a 16:9 video format on an analog television set designed for 4:3 video format.

**FEATURES**
- Input standards supported are digital off-air (BVSF) and digital cable (QAM 64 and 256)
- NTSC composite analog audio/video output is in 480i format and supports Closed Captioning (EIA-608)
- Optional AQD-RCS module allows remote monitoring and configuration of up to 80 AQD modules
- Optional AQD-SPS unit provides standby utility power to the primary power supply (AQD power and control module)

Continued on next page > >
Blonder Tongue

Economical Audio/Video Modulator

The BAVM-860SAW is an economical commercial-quality TV modulator. It provides a +55 dBmV RF output on any specified CATV channel from 2 to 135 (54 to 860 MHz). The BAVM-860SAW is ideal for placing A/V program sources such as satellite receivers, VCRs, DVDs, cameras or TV demodulators onto standard 6-MHz NTSC TV channels for broadband distribution.

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>353273</td>
<td>AQD/QT</td>
<td>Standby power supply, AQD-SPS</td>
</tr>
<tr>
<td>353274</td>
<td>AQD-REMOTE</td>
<td>Configuration server, RCS</td>
</tr>
</tbody>
</table>

Frequency Agile Audio/Video Modulator - AM Series

The AM series is a professional-quality, frequency-agile audio/visual RF channel modulator, designed to accept a standard NTSC baseband video signal and an unbalanced line level audio signal, converting them to a broadband channel. Commonly configured frequency ranges of 50 to 550 MHz or 50 to 806 MHz with +60 dBmV signal-level output. This is the ideal modulator for small- to medium-size CATV headends or for schools, businesses or wherever the application arises. Frequency agility allows “on-the-fly” tuning to any unused or filtered channel in any of the three cable-TV channel plan formats. The AM is designed within a 1.75 in. H x 19 in. W x 14.5 in. D rack aluminum chassis with a three-wire, 120 V AC appliance cord for powering.

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>266806</td>
<td>BAVM860SAW-CH2</td>
<td>Channel 2</td>
</tr>
<tr>
<td>266807</td>
<td>BAVM860SAW-CH3</td>
<td>Channel 3</td>
</tr>
<tr>
<td>266808</td>
<td>BAVM860SAW-CH5</td>
<td>Channel 5</td>
</tr>
<tr>
<td>266809</td>
<td>BAVM860SAW-CH6</td>
<td>Channel 6</td>
</tr>
<tr>
<td>266810</td>
<td>BAVM860SAW-CH11</td>
<td>Channel 11</td>
</tr>
<tr>
<td>266811</td>
<td>BAVM860SAW-CH12</td>
<td>Channel 12</td>
</tr>
</tbody>
</table>

Agile Digital/Analog Processor - AP-60-860A

The AP-60-860A (Agile Digital/Analog Processor) operates in one of the three following modes:
- Mode 1: Analog Heterodyne Processor (analog RF IN > analog RF OUT)
- Mode 2: Digital Heterodyne Processor (QAM IN > QAM OUT)
- Mode 3: Digital-to-Analog Processor (8VSB or QAM IN > analog RF OUT)

**FEATURES**
- Accepts one analog RF input (CATV sub-band channels T7-T13, depending on the model; CATV standard channels 2-135; VHF channels 2-13; and UHF channels 14-69) and delivers one analog RF output (CATV standard channels 2-135)
- Accepts one digital cable QAM input (CATV sub-band channels T7-T13, depending on the model, and CATV standard channels 2-135) and delivers one digital cable QAM output (CATV standard channels 2-135)
- Accepts one digital off-air 8VSB or digital cable QAM input (CATV standard channels 2-135, VHF channels 2-13, and UHF channels 14-69) and delivers one analog RF output (CATV standard channels 2-135)
- Equipped with EAS interface, which can also be used as an IF (intermediate frequency) input
- Supports Closed Captioning (EIA-608)

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>443011</td>
<td>59819 L</td>
<td>+60 dBmV, 54-860 MHz output</td>
</tr>
<tr>
<td>443092</td>
<td>59819</td>
<td>+60 dBmV, T7-T13 sub-band input capable</td>
</tr>
</tbody>
</table>

Digital High-definition Processor - DHDP Series

The DHDP series is a two-module system consisting of one down-converter module and one up-converter module. The down-converter accepts one 8VSB (digital off-air) input in the 54-864 MHz range and delivers one output in IF (intermediate frequency) format. The up-converter accepts one IF input and delivers one output in 8VSB format.

**FEATURES**
- Agile broadcast (UHF, VHF) input and CATV (Standard, HRC, and IRC) output channel assignments in the 54-864 MHz range
- Compatible with digital TV and high-definition TV applications
- Compact design allows for deployment of six combo modules in 2RU rack space

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>244520</td>
<td>AM-60-550 W/OPT 4</td>
<td>7-550 MHz, +60 dBmV sub-band output</td>
</tr>
<tr>
<td>244508</td>
<td>AM-60-550</td>
<td>50-550 MHz, +60 dBmV</td>
</tr>
<tr>
<td>267518</td>
<td>AM-60-806</td>
<td>50-750 MHz, +60 dBmV</td>
</tr>
</tbody>
</table>
The OC series is a professional-quality headend channel combiner with a 5 to 1,000 MHz bandpass performance. It is offered in 8-, 12-, 16-, 24- and 32-input port models. Each model is equipped with a -20 dB test point on its front panel for testing without service interruption. These units are assembled in a rugged aluminum chassis in single RU (1.75 in.) EIA 19 in. rack format for the 8-, 12-, 24- and 32-port, and double RU for the 16-port. These units are designed to combine the products of modulators and/or processors in broadband headends. Multiple combiners may be combined via suitable passive splitter. Inverted to act as a mixer.

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>168871</td>
<td>OC-8D</td>
<td>8-port</td>
</tr>
<tr>
<td>217911</td>
<td>OC-12D</td>
<td>12-port</td>
</tr>
<tr>
<td>330172</td>
<td>HPC-24</td>
<td>24-port</td>
</tr>
<tr>
<td>330179</td>
<td>HPC-32</td>
<td>32-port</td>
</tr>
</tbody>
</table>

The RMDA-ARP (active return path) is a rack-mounted, two-way broadband distribution amplifier. Utilizing push-pull hybrid amplifier technology, it is ideal for MATV, SMATV or CATV applications. The amplifier has a forward bandwidth of 54 to 860 MHz with a gain of 30 dB. The reverse path of 5 to 40 MHz is field-configurable for active or passive operation.

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>217230</td>
<td>BIDA 550-30</td>
<td>50 to 550 MHz, 30 dB gain</td>
</tr>
<tr>
<td>142881</td>
<td>BIDA 550-50</td>
<td>50 to 550 MHz, 50 dB gain</td>
</tr>
<tr>
<td>217100</td>
<td>BIDA 750-30</td>
<td>50 to 750 MHz, 30 dB gain</td>
</tr>
</tbody>
</table>

The BIDA 550/750 Series are professional-quality, broadband, two-way capable, indoor hybrid distribution amplifiers. These amplifiers are designed for RF distribution systems in such applications as apartment complexes, hospitals, schools, prisons, hotels and a wide variety of similar applications. The BIDA series amplifiers are ideal for multichannel distribution networks, supplied by cable TV or multichannel MATV/SMATV/CATV headends. They are also suitable as a launch amplifier in broadband fiber optic networks.

The BIDA 550/750 Series is available in either 550 or 750 MHz bandwidths with push-pull hybrid technology. For two-way operation, optional field-installable diplexers and return amplifiers are used to provide either an active or passive 5-30 MHz return. Passive return configurations require only the diplexers, whereas active return requires installation of both the diplexers and the amplifier.

**FEATURES**
- 30 MHz return capability with optional plug-ins
- Dual push-pull hybrid modules
- Inter-stage variable gain and slope controls
- Optional plug-in fixed equalizer and attenuator adaptability for input signal conditioning
- Input and output test ports
- Large heat sinks for exceptional heat dissipation

**DISTRIBUTION AMPLIFIERS**

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>217103</td>
<td>BIDA-RF</td>
<td>Subsplit diplex filter modules (two required) for bi-directional conversion</td>
</tr>
<tr>
<td>217104</td>
<td>BIDA-RA</td>
<td>5 to 30 MHz, 24 dB gain return amplifier module for bi-directional conversion with amplification</td>
</tr>
</tbody>
</table>
Blonder Tongue

Broadband Outdoor/Indoor Distribution Amplifier - BODA

BLONDER TONGUE

Designed with a cast-aluminum housing, the BODA is ideal for outdoor pedestals as well as indoor backboard installations. The housing utilizes a carbonized rubber and wire mesh gasket to provide excellent protection against RFI and moisture ingress. The 5/8 in. entry fittings in the housing allow hard-line cable to connect directly to the amplifier. For RG-11 or RG-6 cabling applications, two KS-F adapters are included to provide input and output F-connections. The amplifier has flexible powering features. For indoor mounting, the supplied external 60 V AC power supply is connected to the BODA’s auxiliary power F-connector using flexible coax. This feature permits remote powering, so the amplifier can be installed in a desired location for optimum performance without a need for an electrical outlet nearby. Powering can also be accomplished using 60/90 V AC CATV network powering. By changing internal jumpers, the BODA can accept power from its input or output and either stop or pass power through.

### ACCESSORIES

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>339481</td>
<td>BODA-86A-30P</td>
<td>30 dB, 54 to 860 MHz, Integrated Active Return (5 to 42 MHz)</td>
</tr>
<tr>
<td>339482</td>
<td>BODA-86A-40P</td>
<td>40 dB, 54 to 860 MHz, Integrated Active Return (5 to 42 MHz)</td>
</tr>
</tbody>
</table>

**Indoor-grade CATV Splitters**

BLONDER TONGUE

The SXRS/SCVS/SDS series trunk splitters have a bandwidth performance of 5 to 1,000 MHz, and are enclosed in metal housings with 120 dB-rated RFI shielding. These tapping devices are perfectly suited for large indoor distribution tap-down networks and offered in 1-, 2-, 4- and 8-port models, with a broad range of tap-down values. The single-port models are generally used as short-leg, low-insertion loss taps on trunks or for single-drop cable for two jacks within a room. The 2-, 4- and 8-port models are for strategic tap points along the trunk or for star wiring from the closet. These taps are nonpower passing with the lowest value 2-, 4- and 8-port models internally terminated as end-of-line devices. All models are equipped with predrilled mounting tabs for attachment to flat surfaces.

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>217815</td>
<td>SXRS-2</td>
<td>2-way balanced, in-line style</td>
</tr>
<tr>
<td>217817</td>
<td>SXRS-3</td>
<td>3-way balanced, 120 dB</td>
</tr>
<tr>
<td>217816</td>
<td>SXRS-4</td>
<td>4-way balanced</td>
</tr>
<tr>
<td>217819</td>
<td>SXRS-8</td>
<td>8-way balanced, L style</td>
</tr>
<tr>
<td>330146</td>
<td>SDS-12</td>
<td>12-way balanced</td>
</tr>
<tr>
<td>330149</td>
<td>SDS-16</td>
<td>16-way balanced</td>
</tr>
<tr>
<td>200125</td>
<td>SCVS-2</td>
<td>2-way balanced, L style</td>
</tr>
<tr>
<td>345637</td>
<td>SCVS-6</td>
<td>6-way balanced, L style</td>
</tr>
<tr>
<td>278824</td>
<td>SCVS-8</td>
<td>8-way balanced, L style</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>352528</td>
<td>VMI-CEQ8V</td>
<td>Equalizer, plug-in, vertical, values 0-20 dB in 1 dB steps</td>
</tr>
<tr>
<td>352529</td>
<td>VMI-AT</td>
<td>Attenuator, plug-in, values 0-18 dB in 1 dB steps</td>
</tr>
</tbody>
</table>

**Indoor-grade Port Directional Couplers**

BLONDER TONGUE

The SRT series directional couplers have a bandwidth performance of 5 to 1,000 MHz and are enclosed in metal housings with 120 dB-rated RFI shielding. These tapping devices are perfectly suited for large indoor distribution tap-down networks and offered in 1-, 2-, 4- and 8-tap models, with a broad range of tap-down values. The single-port models are generally used as short-leg, low-insertion loss taps on trunks or for single-drop cable for two jacks within a room. The 2-, 4- and 8-port models are for strategic tap points along the trunk or for star wiring from the closet. These taps are nonpower passing with the lowest value 2-, 4- and 8-port models internally terminated as end-of-line devices. All models are equipped with predrilled mounting tabs for attachment to flat surfaces.

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>217829</td>
<td>SRT-4</td>
<td>4 dB tap</td>
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<tr>
<td>217828</td>
<td>SRT-6</td>
<td>6 dB tap</td>
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<tr>
<td>217827</td>
<td>SRT-9</td>
<td>9 dB tap</td>
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<tr>
<td>217826</td>
<td>SRT-12</td>
<td>12 dB tap</td>
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<tr>
<td>217825</td>
<td>SRT-16</td>
<td>16 dB tap</td>
</tr>
<tr>
<td>217824</td>
<td>SRT-20</td>
<td>20 dB tap</td>
</tr>
<tr>
<td>217823</td>
<td>SRT-24</td>
<td>24 dB tap</td>
</tr>
<tr>
<td>217822</td>
<td>SRT-27</td>
<td>27 dB tap</td>
</tr>
<tr>
<td>217820</td>
<td>SRT-30</td>
<td>30 dB tap</td>
</tr>
</tbody>
</table>
Broadband Video Products

The DMT series are the outdoor version of multiport directional couplers, offered in 2-, 4- and 8-port models with a broad range of tap-down values. They are made with 360 aluminum alloy housings, a polyurethane coating for corrosion resistance and a weather-sealed gasket. The trunk throughput ports are KS style 5/8 in. - 24 for hard-line coaxial pin connectors. The tap points are machined brass F female fittings. The seizure clamp is rotational to allow either aerial or pedestal mount. All are equipped with stainless steel mount hardware. Although designed with the cable companies in mind, these are well-suited to indoor distribution networks, especially where eight ports are needed. They are easily adaptable to flexible coaxial via KS to F adapters, found in our catalog under coaxial cable connectors and hardware.

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>217839</td>
<td>SRT-2A-4</td>
<td>4 dB tap</td>
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<tr>
<td>217838</td>
<td>SRT-2A-8</td>
<td>8 dB tap</td>
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<tr>
<td>217837</td>
<td>SRT-2A-11</td>
<td>11 dB tap</td>
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<tr>
<td>217836</td>
<td>SRT-2A-14</td>
<td>14 dB tap</td>
</tr>
<tr>
<td>217835</td>
<td>SRT-2A-17</td>
<td>17 dB tap</td>
</tr>
<tr>
<td>217834</td>
<td>SRT-2A-20</td>
<td>20 dB tap</td>
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<tr>
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<td>SRT-2A-26</td>
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<td>29 dB tap</td>
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<td>SRT-8A-32</td>
<td>32 dB tap</td>
</tr>
<tr>
<td>254622</td>
<td>SRT-8A-35</td>
<td>35 dB tap</td>
</tr>
</tbody>
</table>

CATV-grade Outdoor Passives - DMT Series

The DMT series are the outdoor version of multiport directional couplers, offered in 2-, 4- and 8-port models with a broad range of tap-down values. They are made with 360 aluminum alloy housings, a polyurethane coating for corrosion resistance and a...
Blonder Tongue

**Single-channel Elimination Filter**

The CEF-750 is a professional-quality channel-elimination filter designed to precisely remove one 6 MHz wide television channel, permitting another channel of local origin to be inserted in its place. The CEF-750 provides a deep-notch suppression of the unwanted channel greater than 52 dB with little or no loss to adjacent channels. This results in a clean removal of any channel in the 54 to 312 MHz range (2-38) while passing the full 50-750 MHz broadband CATV feed. The filter is assembled in a rugged aluminum housing in a single RU (1.75 in.) EIA 19-in. rack-mount format. These are passive devices, not requiring power. For multiple channels, they may be connected in series. Due to insertion loss, three or more filters in the series should be preceded by an RF broadband amplifier.

**In-line Cable Equalizers**

A physical by-product of cable in RF broadband system is "tilt," in which the low frequency attenuates at a lesser rate than the high. In large networks, this tilt begins to have a detrimental effect on the trunk after 200 feet. The means for correcting this condition is the in-line cable equalizer. When placed in line with the trunk, the tilt is corrected. Values are selected based on actual drop length. We stock these devices, in four values, for the most prominent frequency range of 550 MHz, where tilt usually becomes a problem. However, these are available based on factory lead time for 450, 750 and 860 MHz. These indoor-grade devices with F-type fittings are not designed for hard-line coaxial-cable networks.

**Cable Modem Termination System - CMTS**

The CMTS communication station unit is based on the DOCSIS (data over cable service interface specification) standards. The CMTS features a scalable design architecture that supports one DOCSIS or Euro-DOCSIS downstream channel with 64 or 256 QAM modulation and up to eight upstream channels that can be factory- or field-installed, supporting QPSK or 16 QAM. The single-rack unit (1.75 in. high) can be installed in a cable-headend facility or a distribution hub site and can function with any DOCSIS/ Euro-DOCSIS certified CPE (customer premise equipment) device.

**Features**

- DOCSIS and Euro-DOCSIS CMTS in one rack-high chassis unit
- Scalable design supports up to eight upstream channels
- Traffic forwarding performed via Layer 2 transparent bridge
- Integrated advanced command line interface permits easy programming
- Remotely manageable and upgradable with SNMP and telnet access capabilities

**Baseband A/V to IP Encoder - IPME-2**

The IPME-2 Encoder accepts one input in baseband audio/video format, and delivers one MPEG-2 encoded IP stream compatible with 10BASE-T Ethernet or 100BASE-TX Fast Ethernet standards.

**Price List**

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>219052</td>
<td>CEF-750</td>
<td>Single-channel elimination filter</td>
</tr>
<tr>
<td>217852</td>
<td>LE-550-3</td>
<td>3 dB EQ 550 MHz</td>
</tr>
<tr>
<td>217853</td>
<td>LE-550-6</td>
<td>6 dB EQ 550 MHz</td>
</tr>
<tr>
<td>217854</td>
<td>LE-550-9</td>
<td>9 dB EQ 550 MHz</td>
</tr>
<tr>
<td>217855</td>
<td>LE-550-12</td>
<td>12 dB EQ 550 MHz</td>
</tr>
<tr>
<td>320720</td>
<td>CS-BT-CMTS-1X1</td>
<td>1 x 1 DOCSIS CMTS, one downstream, one upstream channel</td>
</tr>
<tr>
<td>320721</td>
<td>CS-BT-CMTS-U/S MOD</td>
<td>CMTS upstream module</td>
</tr>
<tr>
<td>320722</td>
<td>CS-BT-CMTS-NMS</td>
<td>DOCSIS CMTS network monitoring software</td>
</tr>
<tr>
<td>339483</td>
<td>IPME</td>
<td>IPTV MPEG-2 encoder</td>
</tr>
<tr>
<td>339484</td>
<td>IPCH</td>
<td>IPTV encoder rack chassis</td>
</tr>
<tr>
<td>352530</td>
<td>IPME-SM</td>
<td>IPTV MPEG-2 stream manager</td>
</tr>
<tr>
<td>352531</td>
<td>IPCV</td>
<td>Internet protocol client viewer</td>
</tr>
<tr>
<td>370612</td>
<td>IPMPEG-LA</td>
<td>MPEG license authority fee (required with each IPME-2)</td>
</tr>
</tbody>
</table>
The AQT accepts one input in 8VSB (digital off-air) or QAM (digital cable) format, and delivers one output in QAM format in the 54-864 MHz range.

The AQT can be utilized in a remote headend to "regenerate" a clean QAM channel from a degraded one. It also allows TV sets to receive digital off-air programming on CATV channel assignments by transmodulating the 8VSB broadcast to QAM.

**Features**

- Input standards supported are digital off-air (8VSB and 16VSB) and digital cable (QAM 16, 32, 64, 128 and 256)
- Agile QAM output at +40 dBmV and in the frequency range of 54-864 MHz range
- Optional AQT-RCS module allows remote monitoring and configuration of up to 80 AQT modules
- Optional AQT-SPS unit provides standby utility power to the primary power supply (AQT power and control module)

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>369362</td>
<td>AQT</td>
<td>ATSC to QAM transcoder</td>
</tr>
<tr>
<td>369363</td>
<td>AQT-PCM</td>
<td>AQT power and control module</td>
</tr>
<tr>
<td>369365</td>
<td>QTRC</td>
<td>QAM transcoder rack chassis</td>
</tr>
<tr>
<td>369366</td>
<td>QTR-FCS</td>
<td>QT RF combiner and splitter (contains QTRFC and QTTFS)</td>
</tr>
<tr>
<td>369367</td>
<td>AQT-SPS</td>
<td>AQT standby power supply with headend fan</td>
</tr>
<tr>
<td>369368</td>
<td>AQT-RCS</td>
<td>AQT remote configuration server</td>
</tr>
<tr>
<td>369369</td>
<td>QTHF</td>
<td>QT headend fan</td>
</tr>
<tr>
<td>369370</td>
<td>HDA SERIES</td>
<td>Headend distribution amplifier (4 to 16 ports with 24 to 16 dB gain)</td>
</tr>
</tbody>
</table>

The DAP accepts one input in 8VSB (digital off-air) or QAM (digital cable) format, and delivers one output in modulated analog RF format. DAP PLUS is the same as DAP, but includes the AFD broadcast package. AFD (active format description) is a standard set of codes embedded in the video stream and used by digital television broadcasters to optimally display a 16:9 video format on an analog television set designed for 4:3 video format.

Both DAP and DAP PLUS can be equipped with an optional RNC module (remote network card) for remote monitoring and control operations. One RNC module can monitor and control up to 64 DAP/DAP PLUS units installed in a headend. Additionally, DAP PLUS can be equipped with an optional ASI module (asynchronous serial interface) that delivers two identical ASI stream outputs, allowing a seamless migration to an all-digital platform.

**Features**

- Agile Broadcast (UHF, VHF) and CATV (Standard, HRC and IRC) channel assignments in the 54-864 MHz range
- Supports EAS (emergency alert system) input which can also be used as an IF (intermediate frequency) input
- Automated scanning captures all available off-air or cable programs present on the input signal
- Supports both the primary and the SAP (secondary audio program) audio programs
- Output power level range of + 50 to + 62 dBmV adjustable in 0.2 dB increments
- Supports Closed Captioning (EIA-608)

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>369371</td>
<td>DAP</td>
<td>Digital-to-analog processor</td>
</tr>
<tr>
<td>369375</td>
<td>DAP-RNC</td>
<td>DAP equipped with remote network (only one required per headend)</td>
</tr>
</tbody>
</table>
The HDE-ASI Encoder accepts and auto-detects input streams in HD-SDI, SD-SDI, and analog NTSC formats, and delivers one HD/SD MPEG-2 encoded output in ASI format. Additionally, a multichannel output in DVI format is available for preview and testing purposes. The standard audio program of the digital inputs is encoded in Dolby AC-3 format. Optional Dolby 5.1 is available. Remote monitoring and control is accomplished using any standard Web browser.

**Features**
- Three available input modes: 1xHD(1080i), 1xHD(720p) + 2xSD/NTSC and 4xSD/NTSC
- GUI-based monitoring and control menu via Web browser
- Standard real-time Dolby AC-3 audio encoding
- Optional real-time Dolby 5.1 audio encoding
- Multichannel preview via front-panel DVI interface
- Supports Static PSIP configuration
- Supports Closed Captioning

The MUX-2D-QAM is designed to allow CATV operators to multiplex two digital channels received in either 8VSB or QAM format to a single QAM output channel for delivery over a standard coaxial distribution network. It accepts up to two 8VSB or clear QAM channels and aggregates them onto one QAM RF output in the 54-864 MHz range. The MUX-2D-QAM provides the capability to filter program streams and to assign major/minor or a single 4-digit channel number to each. The MUX-2D-QAM also provides Emergency Alert System (EAS) program switching through ASI input and terminal block contacts. The EAS input source, which must be in ASI format, can be shared among multiple MUX-2D-QAM units by looping it from one to another unit without the need for external splitting and amplification.

**Features**
- Supports MPEG-2 transport stream tables: PAT, PMT, MGT, RRT, STT, and VCT
- Re-maps duplicate PIDs, program numbers, and minor channel numbers
- Allows sharing of the EAS input source among multiple units
- User-defined major/minor or 4-digit CATV virtual channels
- User-defined channel names
- EAS input replaces up to 12 program streams
- Supports PID filtering and PSIP reassignment
- Provides QAM 256 output at 38.8 Mbps
- Supports ASI input as EAS input source
- User-defined QAM output parameters
- Maintains MPEG-2 mapping
The DVS is a video server designed for broadcasting applications - in essence, a digital TV station-in-a-box solution. It stores hundreds of hours of video or data files, and utilizes a GUI-based software tool that allows a 24/7 scheduling of the broadcast timetable a few weeks in advance.

Uploading video content and ingesting DVD programming on to the server is as simple as drag and drop. Remote monitoring and control is accomplished via any standard Web browser, allowing real-time re-scheduling of broadcast content and timetable from anywhere and at any time. It also publishes a program guide listing that can be interfaced with other online program guides.

Two models are available:
- DVS-400 provides three software-selectable analog outputs:
  (1) Composite audio/video
  (2) Component audio/video
  (3) Video graphics array (VGA)
- DVS-400-ASI provides one digital output in ASI format (270 Mbps)

**Features**
- Remote monitoring and operation via any Web browser
- Digital-quality video broadcast with stereo audio
- GUI-based content download and management
- Supports FTP, SMB, HTTP and NTP protocols
- 24/7 scheduling and broadcasting capability
- Virtual trims, and auto-fade continuity
- 400 GB of storage capacity

<table>
<thead>
<tr>
<th>Anixter No.</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>373247</td>
<td>DVS-400</td>
<td>Digital video server, 1x composite/component output</td>
</tr>
<tr>
<td>448857</td>
<td>DVS-400-4</td>
<td>Digital video server, 4x composite output</td>
</tr>
<tr>
<td>393831</td>
<td>DVS-400-ASI</td>
<td>Digital video server, ASI output</td>
</tr>
</tbody>
</table>
ChannelPlus

2130A - IR Target
CHANNELPLUS

FEATURES
• 12 volt IR system target
• Mini size
• 7 ft. cord with mini plug
• Talk-back LED

3025 - All-in-one Modulator
CHANNELPLUS

FEATURES
• All-in-one system whole-house video distribution
• Features triple inputs: a CATV or antenna signal plus two in-home A/V signals (DVD, VCR, camera, etc.)
• Modulates to user-selected channel that may be viewed at up to five TV locations
• The unit modulation is frequency-agile and allows for whole-house infrared remote control

2171 - IR Emitter (Single)
CHANNELPLUS

FEATURES
• Use with either 5 or 12 volt IR system
• Single-head IR emitter
• 5 ft. cord with mini plug

H933 - IR Target
CHANNELPLUS

FEATURES
• Set-top target
• Dual F-connectors
• 5 V systems only

2172 - IR Emitter (Dual)
CHANNELPLUS

FEATURES
• Use with either 5 or 12 volt IR systems
• Dual emitter heads
• 5 ft. cord with mini plug

Vendor No.
Description
Anixter No.
2130A
IR target
259099
2171
Single emitter
239255
2172
Dual emitter
263382
IR target receiver
243079
Modulator
239255
2130A
IR target
259099
2171
Single emitter
239255
2172
Dual emitter
263382
IR target receiver
243079
Modulator
5400 Series Mono Modulators

**FEATURES**
- Digital push-button tuning
- Tuning range: UHF, 14-64; CATV, 65-125 (excluding 95-99)
- Frequency-agile
- Full 25 dBmV output
- No IR pass-through

<table>
<thead>
<tr>
<th>Anixter No.</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>273446</td>
<td>5415</td>
<td>Single-input modulator</td>
</tr>
<tr>
<td>239671</td>
<td>5425</td>
<td>Double-input modulator</td>
</tr>
<tr>
<td>273443</td>
<td>5435</td>
<td>Triple-input modulator</td>
</tr>
<tr>
<td>273445</td>
<td>5445</td>
<td>Quad-input modulator</td>
</tr>
</tbody>
</table>

5525/5545 - Video Modulators

**FEATURES**
- Mono modulator with 25 dBmV RF output
- Frequency-agile
- Push-button programming
- Tuning range: UHF, 14-64; CATV, 65-125 (excluding 95-99)
- Integrated IR breakout
- This new series brings the advantage of IR control
- Remotely powers either a DA-550 or DA-8200 distribution panels

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>243286</td>
<td>5525</td>
<td>2-channel</td>
</tr>
<tr>
<td>243287</td>
<td>5545</td>
<td>4-channel</td>
</tr>
</tbody>
</table>

**MOUNT**
Mounts the 5525/5545 using one space in a 19 in. EIA rack-mount system.

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>259102</td>
<td>2620</td>
<td>EIA rack-mount adapter</td>
</tr>
</tbody>
</table>

DA-500A - Amplifier

**FEATURES**
- Ideal for residential cable systems or as an antenna pre-amplifier
- Robust power supply
- High-level EMI rejection
- RF amplifier
- 18 dB gain
- Includes grid-mounting system
- DTV compatible

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>243078</td>
<td>DA-500A</td>
<td>Amplifier</td>
</tr>
</tbody>
</table>

DA506BID - RF Distribution Amplifier

**FEATURES**
- One CATV or antenna input to up to six TV locations
- 5-42 MHz return path compatible with CATV set top boxes
- DTV-compatible
- Includes grid-mounting system

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>259105</td>
<td>DA-506BID</td>
<td>One in, six out RF distribution amplifier</td>
</tr>
</tbody>
</table>
DA-520A - RF Bi-directional Amplifier

FEATURES
- 20 dB forward gain
- 0 dB return gain (5-40 MHz)
- CATV set top box-compatible
- 12 V DC power supply included
- DTV-compatible

CHANNELPLUS

DA550HHR / DA550BID - Video Hub

FEATURES
- DA550BID offers a 5-42 MHz path for bi-directional communications for use in CATV systems
- DA550HHR is used with high-performance antenna applications for "off-air" HDTV digital TV and NTSC signals
- Three inputs to up to eight TV locations (up to 150 ft. from the panel)
- May be remotely powered; requires the 2010 wall plate and power supply or a 5500 series modulator
- Expandable up to 64 TV outputs
- Includes grid-mounting system
- 12 V IR engine
- DTV-compatible

CHANNELPLUS

DA8200HHR / DA8200BID - RF Distribution Panel

FEATURES
- Three inputs to up to eight television locations (up to 150 ft. from the panel)
- Expandable to 64 locations
- 5 V IR engine on board
- BID model includes 5-42 MHz return path for CATV systems
- HHR model compatible with "off-air" HDTV digital TV and NTSC signals
- Includes grid-mounting system
- DTV-compatible

CHANNELPLUS

DMD16 - Data Distribution Module

FEATURES
- Cat 5e certified
- Un-bridged termination hub
- 16 data locations
- Label system included
- Includes grid-mounting system

CHANNELPLUS

DMT16 - Telephone Distribution Module

FEATURES
- Four-line to 16 locations 110-type punch-down connectivity
- Four-line surge protection
- Security-interface port

CHANNELPLUS
ChannelPlus

Broadband Video Products

FEATURES

- Expansion port
- Service/disconnect ports
- Label system included
- Includes grid-mounting system

Anixter No. Vendor No. Description
259108 DMT-16 Telephone distribution module

MDS-6A - Multroom Audio Distribution

CHANNELPLUS

FEATURES

- Six audio sources selectively switched to six speaker zones
- RJ45 connection to each keypad with Cat 5 cable
- IR remote control of audio sources with six source-specific, routed IR output ports
- Frequency response 20 Hz to 20 KHz
- 40 W per channel (12 channels total)
- Expandable to 12 zones
- IR receiver in keypad

Anixter No. Vendor No. Description
243082 MDS-6A Music distribution

SVC10 Pro S-Video Distribution

CHANNELPLUS

FEATURES

- Native S-Video over Cat 5 UTP wire
- Transfers unconverted S-Video or composite video, digital or analog audio and IR control
- 1,000 ft. distance capacity
- Both transfer and receive units included
- Rack-mounting kit included

Anixter No. Vendor No. Description
259107 SVC-10 S-Video distribution

Audio;Distribution/3618
MDS-6A - Multiroom Audio Distribution
CHANNELPLUS

Audio;Controller/3635
MCS-1A/MCS-2A - Single/Double-gang Controllers
CHANNELPLUS

Audio;Controller/3635
MCS-1A/MCS-2A - Single/Double-gang Controllers
CHANNELPLUS

Audio;Distribution/3618
Broadband;Video Distribution
CHANNELPLUS

DISTRIBUTION MODULES: Telephone/4181

INDEX 1: Networking Systems

FEATURE

- In-wall control
- For use with MDS-6A multiroom music-distribution system
- Direct access to any of the six available audio sources
- Independent volume and mute functions
- Integrated IR targets

Anixter No. Vendor No. Description
259108 DMT-16 Telephone distribution module

MCS-1A/MCS-2A - Single/Double-gang Controllers
CHANNELPLUS

FEATURES

- Interchangeable button labels
- Programmable; transport via onboard universal remote code chip and numeric buttons (MCS-2A)
- 25 macros with 10 steps each (MCS-2A)

Anixter No. Vendor No. Description
243093 MCS-1A Single-gang controller
243094 MCS-2A Double-gang controller

MCS-1A/MCS-2A - Single/Double-gang Controllers
CHANNELPLUS

PRODUCTS. TECHNOLOGY. SERVICES. DELIVERED GLOBALLY.
1.800.ANIXTER • anixter.com 16.15
### SVM-22 and SVM-24 - Set-top S-Video Modulator (Stereo)

**FEATURES**
- Maintains MTS stereo sound
- SVM-22 has two inputs for DVD, VCR, etc.
- SVM-24 has four inputs for DVD, VCR, etc.
- 25 dBmV output level
- IR pass-through
- Connections for IR emitters, 12 V or 5 V compatible
- Push-button programming
- Tuning range: UHF, 14-64; CATV, 65-125 (excluding 95-99)
- 19-in. rack-mounting kit included
- Meets FCC Part 15 B standards

**Vend. No.** | **Vendor No.** | **Description**
--- | --- | ---
243288 | SVM-22 | 2-channel
243289 | SVM-24 | 4-channel

### Wall Plates

**FEATURES**
- Latest technology saves time and labor costs
- Installs three to five times faster than standard products
- 110-type punch-downs for voice and Cat.5e certified for data connections
- Telephone line assignments done automatically
- Fewer errors; easy-to-check connectivity
- Coaxial knockouts with barrel connectors supplied (PC and PDC models)
- Available in white, ivory and almond

**Vend. No.** | **Vendor No.** | **Description**
--- | --- | ---
273447 | WP-DD | Dual data, two 110-type punch-downs, with two RJ45 Cat 5e ports
273449 | WP-PC | Telephone and cable, one 110-type punch-down, four RJ14 ports, telephone line-assignment circuit board, two coaxial knockouts with supplied barrel connectors
273450 | WP-DP | Data and telephone, two 110-type punch-downs, one Cat 5e port, four RJ14 telephone ports, telephone line-assignment circuit board
273451 | WP-PDC | Telephone, data and cable, two 110-type punch-downs, one Cat 5e RJ45, two RJ14, two coaxial ports, line-assignment circuit board, two coaxial knockouts with supplied barrel connectors

### 2619 - Rack-mount Structured Wire Grid System

**FEATURES**
- Fits 19 in. EIA-standard equipment racks
- 12 rack-spaces high by 5 in. mounting depth
- Accommodates all ChannelPlus Grid-Mounting System products
- Raised back panel allows for wire pass-through

**Vend. No.** | **Vendor No.** | **Description**
--- | --- | ---
243291 | 2619 | 19 in. rack-mount structured cabling system
243292 | 2621 | Cover for 19 in. rack-mount SCS
H318A - 18 in. Enclosure

**FEATURES**
- 18 in. high
- Surface or stud bay mounting
- 33-grid-in. mounting surface (two 16.5 in. columns)
- New flexible side mount system
- AC knockout (panel bottom)
- Steel, painted white
- Accommodates H-208 lock kit

**Anixter No.** | **Vendor No.** | **Description**
--- | --- | ---
273435 | H318A | 18 in. enclosure
239213 | HC18A | 18 in. enclosure cover
300632 | HD18 | 18 in. hinged door enclosure cover

H611 - Telephone Surge Hub

**FEATURES**
- Telephone-service interface for four lines
- Two-level surge protection on each line with LED indicator
- Security panel connection RJ31X for seizure of line 1
- System-test port
- Output expansion on RJ45 or 110-type punch-down connectors

**Anixter No.** | **Vendor No.** | **Description**
--- | --- | ---
239222 | H611 | Telephone surge hub

H336A - 36 in. Enclosure

**FEATURES**
- 36 in. high
- 69-grid-in. mounting surface (two 34.5 in. columns)
- New flexible side-mount system
- Surface or stud bay mounting
- AC knockout (panel bottom)
- Optional lock kit (H-208)
- Steel, painted white

**Anixter No.** | **Vendor No.** | **Description**
--- | --- | ---
273436 | H336A | 36 in. enclosure
239218 | HC36A | 36 in. enclosure cover
300633 | HD36 | 36 in. hinged door enclosure cover

H616 - Telephone Master Hub

**FEATURES**
- Telephone service for four lines with outputs to six separate locations
- Security panel connection via RJ31X port
- 110 punch-down connectors
- May be mounted in inverted position
- Expansion jack for model 618

**Anixter No.** | **Vendor No.** | **Description**
--- | --- | ---
239233 | H616 | Telephone master hub
H618 - Telephone Expansion Hub

**FEATURES**
- May be used stand-alone or as expansion for H-616
- Telephone service for four lines with outputs for eight locations
- Cat 5 jumper cable included
- Expansion jack for additional H618s

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>239234</td>
<td>H618</td>
<td>Telephone expansion hub</td>
</tr>
</tbody>
</table>

**H628 - Data Termination Hub**

**FEATURES**
- Certified 100BASE-T performance
- Cat 5e performance in a multiport hub
- Terminates eight Cat 5e wires
- The eight RJ45 ports are vertically bridged to the 110-type connectors
- Ideal as a networking patch bay

<table>
<thead>
<tr>
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<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>239236</td>
<td>H628</td>
<td>Data termination hub</td>
</tr>
</tbody>
</table>

**H816BID - Video Hub**

**FEATURES**
- One CATV or antenna input to six TV locations
- One broadband input
- Two locations 150 ft. from hub, four locations up to 75 ft. from hub
- Compatible with CATV and off-air antenna systems

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>273441</td>
<td>H816BID</td>
<td>Video hub</td>
</tr>
</tbody>
</table>

**H838BID and H838HHR - Video Hub**

**FEATURES**
- Distributes three inputs to up to eight TVs (may be up to 150 ft. from hub)
- Two modulator inputs to add locally generated A/V sources (camera or DVD)
- IR repeating system using 5 V targets
- BID version for use with CATV systems (5-42 MHz return path)
- Use with set-top box CATV systems
- HHR version for use with off-air antenna systems, DTV compatible

<table>
<thead>
<tr>
<th>Anixter No.</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>239246</td>
<td>H838BID</td>
<td>Bi-directional</td>
</tr>
<tr>
<td>239247</td>
<td>H838HHR</td>
<td>Unidirectional</td>
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</tbody>
</table>

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Plastic Enclosure

**FEATURES**

- Fits between studs
- ABS construction
- Flexi-mount system (slots and tabs allow for surface- or flush-mount)
- Electrical J-box knockout on bottom
- Eight combination 1/2 in. or 2 in. knockouts including two located on the sides of the box
- Paint shield and four Philips head screws included
- Snap-on vented cover included
- ETL Listed

<table>
<thead>
<tr>
<th>Anixter No.</th>
<th>Vendor No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>371044</td>
<td>H312KIT</td>
<td>12 in. plastic enclosure, includes cover</td>
</tr>
</tbody>
</table>
Your Source for Your Infrastructure Needs

Horizontal Building Space
- Copper and fiber optic cable
- Flexible cable runway
- J-hooks
- Indoor plenum innerduct
- Cable ties
- Wireless access points
- Building wire
- Wireless distributed antenna systems (DAS)
- Ceiling and wall-mount zone enclosures

Workstation
- Jacks, adapters and faceplates
- Patch cords
- Labeling
- Surface raceway
- Telephones
- Headsets
- Voice and visual paging
- UPS and power protection products

Security Systems
- Video surveillance
- Access control
- Network and environmental monitoring
- Sound and paging systems
- Fire and intrusion products
- Low-voltage and fiber cabling
- Accessories
- UPS and power protection
- Architectural hardware
- Key systems/Key control

Remote Manufacturing Facility
- Electrical and electronic support and supply products (cable tray, cable ties, etc.)
- Power cable
- Instrumentation and control cable
- Specialty industrial cable
- Portable cord
- Industrial networking products
- Industrial control cable
- Industrial communication cable (Ethernet, fieldbus, fiber)
- Enclosures
- Perimeter security
- Power distribution and power protection

Telecom Closet
- Copper and fiber optic cable
- Patch cords and patch panels
- Racks, cabinets and shelving products
- Cable management
- Grounding and bonding
- UPS and power protection
- Tools and test equipment
- Switches
- Power over Ethernet (PoE)
- Media converters
- Transceivers

Data Center
- Copper and fiber optic cable
- Patch cords and patch panels
- Intelligent patching
- Preterminated copper and fiber solutions
- Racks, cabinets and shelving
- TZ Praetorian™ Cabinet Locking System
- Cable management
- Intelligent rack power strips
- Grounding and bonding
- Precision cooling units
- Power distribution units (PDUs)
- Uninterrupted power supplies (UPS)
- Overhead duct and ladder rack
- Environmental monitoring and management products
- Switches
- Console servers
- Device servers
- CSI/D3U
- KVM switches and console managers
- Power cabling and accessories
- Power over Ethernet (PoE)
- Access control and surveillance systems
- Tools and test equipment
- Building entrance protection

Riser Building Space
- Copper and fiber optic backbone cable
- Firestop
- Building wire
- Electrical and electronic support and supply products (cable tray, cable ties, etc.)
- Power cable
- Instrumentation and control cable
- Specialty industrial cable
- Portable cord
- Industrial networking products
- Industrial control cable
- Industrial communication cable (Ethernet, fieldbus, fiber)
- Enclosures
- Perimeter security
- Power distribution and power protection

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