



## MASTERseries Product Guide

| Item   | Part Number | Description   |
|--|-------------|---|
| <b>MASTERseries Base Enclosures</b>                              |             |   |
| 8-Slot VAC Enclosure with Power Supply and Rack Mounts           | 8021A       | 75 Watt AC power 8-slot <b>MASTER</b> series chassis, 1 power supply, 19/23-inch mount, manual              |
| 8-Slot VAC Enclosure with Redundant Power Supply and Rack Mounts | 8021AA      | 75 Watt AC power 8-slot <b>MASTER</b> series chassis, 2 power supplies, 19/23-inch mount, manual            |
| 8-Slot VDC Enclosure with Power Supply and Rack Mounts           | 8021U       | 75 Watt universal DC power 8-slot <b>MASTER</b> series chassis, 1 power supply, 19/23-inch mount, manual    |
| 8-Slot VDC Enclosure with Redundant Power Supply and Rack Mounts | 8021UU      | 75 Watt universal DC power 8-slot <b>MASTER</b> series chassis, 2 power supplies, 19/23-inch mount, manual  |
| 2-Slot VAC Enclosure with Power Supply and Rack Mounts           | 8015A       | AC power dual slot <b>MASTER</b> series chassis, power supplies, 19/23-inch mount, manual                   |
| 2-Slot VAC Enclosure with Redundant Power Supply and Rack Mounts | 8015AA      | AC power dual slot <b>MASTER</b> series chassis, 2 power supplies, 19/23-inch mount, manual                 |
| 2-Slot VDC Enclosure with Power Supply and Rack Mounts           | 8015U       | Universal DC (+/-20 to +/-60VDC) dual slot <b>MASTER</b> series, 1 power supply, 19/23-inch mount, manual   |
| 2-Slot VDC Enclosure with Redundant Power Supply and Rack Mounts | 8015UU      | Universal DC (+/-20 to +/-60VDC) dual slot <b>MASTER</b> series, 2 power supplies, 19/23-inch mount, manual |
| Single-Slot VAC Enclosure with Power Supply                      | 8010A       | MASTERseries 100-250 VAC single slot enclosure, NMS cable, power supply, software CD, manual                |

| Item  | Part Number | Description  |
|---|-------------|--|
| Single-Slot -48 VDC Enclosure with Power Supply   | 8010D       | MASTERseries -48 VDC single slot enclosure, NMS cable, power supply, software CD, manual                           |
| Single-Slot +24VDC Enclosure with Power Supply    | 8010C       | MASTERseries +24 VDC single slot enclosure, NMS cable, power supply, software CD, manual                           |
| <b>MASTERseries Single-slot (empty) Enclosure</b> |             |  |
| Single-Slot Enclosure                             | 8010        | MASTERseries single slot enclosure, NMS cable, software and documentation CD                                       |
| <b>MASTERseries Enclosure Power Supplies</b>      |             |  |
| 8-Slot VAC Power Supply                           | 8012        | 75 Watt 100-250VAC eight slot enclosure power supply   |
| 8-Slot VDC Power Supply                           | 8088        | 75 Watt universal DC (+/-20 to +/-60VDC) eight slot enclosure power supply   |
| 2-Slot VAC Power Supply                           | 8016        | 100-250VAC dual slot enclosure power supply  |
| 2-Slot VDC Power Supply                           | 8019        | Universal DC (+/-20 to +/-60VDC) dual slot enclosure power supply  |
| Single-Slot VAC Power Supply                      | 8001        | 100-250 VAC single slot enclosure power supply   |
| Single-Slot -48VDC Power Supply                   | 8002        | -48 volts DC single slot enclosure power supply  |
| Single-Slot +24VDC Power Supply                   | 8003        | +24 volts DC single slot enclosure power supply  |
| <b>MASTERseries Modules</b>                       |             |  |
| LINKmaster Dual T1 CSU                            | 8520H       | <b>LINK</b> master Dual CSU Network Termination Unit - supports 4 T1 ports   |
| LINKmaster Dual E1 CSU                            | 8540H       | LINKmaster Dual CSU Network Termination Unit - supports 4 E1 ports   |
| LINKmaster Dual T1 CSU + Router                   | 8520H-PC    | LINKmaster dual CSU with <b>PACKET</b> core - supports 4 T1 ports and single Ethernet port                         |
| LINKmaster Dual E1 CSU + Router                   | 8540H-PC    | LINKmaster dual CSU with <b>PACKET</b> core - supports 4 E1 ports and single Ethernet port                         |
| PATHmaster 2 T1 with 2 V.35                       | 8530H       | PATHmaster2 T1 crossconnect with integrated DSU/CSUs, SNMP, APS, supports 2 T1 and 2 V.35 ports                    |
| PATHmaster 2 T1 with 1 V.35 and Router            | 8530H-PC    | PATHmaster2 T1, SNMP, APS, supports 2 T1 ports and 1 V.35 port, single Ethernet port, <b>PACKET</b> core IP router |
| PATHmaster 2 T1 with 2 RS-530                     | 8530HR      | PATHmaster2 T1 crossconnect with integrated DSU/CSUs, SNMP, APS, supports 2 T1 and 2 RS530 ports                   |
| PATHmaster 2 T1 with 1 RS-530 and Router          | 8530HR-PC   | PATHmaster2 T1, SNMP, APS, supports 2 T1 ports and 1 RS530 port, single Ethernet port, <b>PACKET</b> core          |
| PATHmaster 2 E1 with 2 V.35                       | 8550H       | PATHmaster2 E1 crossconnect with integrated DSU/CSUs, SNMP, APS, supports 2 E1 and 2 V.35 ports                    |
| PATHmaster 2 E1 with 1 V.35 and Router            | 8550H-PC    | PATHmaster2 E1, SNMP, APS, supports 2 E1 ports and 1 V.35 port, single Ethernet port, <b>PACKET</b> core IP router |

| <b>Item</b>                              | <b>Part Number</b> | <b>Description</b>  |
|--|--------------------|---|
| PATHmaster 2 E1 with 2 RS-530            | 8550HR             | PATHmaster2 E1 crossconnect with integrated DSU/CSUs, SNMP, APS, supports 2 E1 and 2 RS530 ports                                      |
| PATHmaster 2 E1 with 1 RS-530 and Router | 8550HR-PC          | PATHmaster2 E1, SNMP, APS, supports 2 E1 and 1 RS530 port, single Ethernet port, <b>PACKET</b> core IP router                         |
| PATHmaster 3 T1 with 2 V.35              | 8535H              | PATHmaster3 T1 crossconnect with integrated DSU/CSUs, SNMP, APS, supports 3 T1 and 2 V.35 ports                                       |
| PATHmaster 3 T1 with 1 V.35 and Router   | 8535H-PC           | PATHmaster3 T1, SNMP, APS, supports 3 T1 and 1 V.35 port, single Ethernet port, <b>PACKET</b> core IP router                          |
| PATHmaster 3 T1 with 2 RS-530            | 8535HR             | PATHmaster3 T1 Crossconnect with integrated DSU/CSUs, SNMP, and Auto Protection <b>PATH</b> master3 - supports 3 T1 and 2 RS530 ports |
| PATHmaster 3 T1 with 1 RS-530 and Router | 8535HR-PC          | PATHmaster3 T1, SNMP, APS, supports 3 T1 and 1 RS530 ports, single Ethernet port, <b>PACKET</b> core IP router                        |
| PATHmaster 3 E1 with 2 V.35              | 8555H              | PATHmaster3 E1 crossconnect with integrated DSU/CSUs, SNMP, APS, supports 3 E1 and 2 V.35 ports                                       |
| PATHmaster 3 E1 with 1 V.35 and Router   | 8555H-PC           | PATHmaster3 E1, SNMP, APS, supports 3 E1 and 1 V.35 port, single Ethernet port, <b>PACKET</b> core IP router                          |
| PATHmaster 3 E1 with 2 RS-530            | 8555HR             | PATHmaster3 E1 crossconnect with integrated DSU/CSUs, SNMP, APS, supports 3 E1 and 2 RS530 ports                                      |
| PATHmaster 3 E1 with 1 RS-530 and Router | 8555HR-PC          | PATHmaster3 E1, SNMP, APS, supports 3 E1 and 1 RS530 port, single Ethernet port, <b>PACKET</b> core IP router                         |
| PATHmaster 4 T1 with 2 V.35              | 8525H              | PATHmaster4 T1 crossconnect with integrated DSU/CSUs, SNMP, APS, supports 4 T1 and 2 V.35 ports                                       |
| PATHmaster 4 T1 with 1 V.35 and Router   | 8525H-PC           | PATHmaster4 T1, SNMP, APS, supports 4 T1 and 1 V.35 port, single Ethernet port, <b>PACKET</b> core IP router                          |
| PATHmaster 4 T1 with 2 RS-530            | 8525HR             | PATHmaster4 T1 crossconnect with integrated DSU/CSUs, SNMP, APS, supports 4 T1 and 2 RS530 ports                                      |
| PATHmaster 4 T1 with 1 RS-530 and Router | 8525HR-PC          | PATHmaster4 T1, SNMP, APS, supports 4 T1 and 1 RS530 port, single Ethernet port, <b>PACKET</b> core IP router                         |
| PATHmaster 4 E1 with 2 V.35              | 8545H              | PATHmaster4 E1, SNMP, APS, supports 4 E1 and 2 V.35 ports   |
| PATHmaster 4 E1 with 1 V.35 and Router   | 8545H-PC           | PATHmaster4 E1, SNMP, APS, supports 4 E1 and 1 V.35 port, single Ethernet port, <b>PACKET</b> core IP router                          |
| PATHmaster 4 E1 with 2 RS-530            | 8545HR             | PATHmaster4 E1, SNMP, APS, supports 4 E1 and 2 RS530 ports  |
| PATHmaster 4 E1 with 1 RS-530 and Router | 8545HR-PC          | PATHmaster4 E1, SNMP, APS, supports 4 E1 and 1 RS530 port, single Ethernet port, <b>PACKET</b> core IP router                         |

| <b>Item</b>                                   | <b>Part Number</b> | <b>Description</b>  |
|---|--------------------|---|
| Upgrade PATHmaster2 T1 to 4 T1                | 8532U              | Upgrade of a <b>PATH</b> master2 T1 to a <b>PATH</b> master4 T1   |
| Upgrade PATHmaster2 E1 to 4 E1                | 8552U              | Upgrade of a <b>PATH</b> master2 E1 to a <b>PATH</b> master4 E1   |
| Upgrade PATHmaster2 T1 to 4 T1 and PACKETcore | 8532U-PC           | Upgrade of a <b>PATH</b> master2 T1 with <b>PACKET</b> core to a <b>PATH</b> master4 T1 with <b>PACKET</b> core |
| Upgrade PATHmaster2 E1 to 4 E1 and PACKETcore | 8552U-PC           | Upgrade of a <b>PATH</b> master2 E1 with <b>PACKET</b> core to a <b>PATH</b> master4 E1 with <b>PACKET</b> core |
| Upgrade PATHmaster3 T1 to 4 T1                | 8533U              | Upgrade of a <b>PATH</b> master3 T1 to a <b>PATH</b> master4 T1   |
| Upgrade PATHmaster3 E1 to 4 E1                | 8553U              | Upgrade of a <b>PATH</b> master3 E1 to a <b>PATH</b> master4 E1   |
| Upgrade LINKmaster T1 to PATHmaster 4 T1      | 8534U              | Upgrade of a <b>LINK</b> master T1 to a <b>PATH</b> master4 T1  |
| Upgrade LINKmaster E1 to PATHmaster 4 E1      | 8554U              | Upgrade of a <b>LINK</b> master E1 to a <b>PATH</b> master4 E1  |
| BANDmaster 4 T1 IMUX with 2 V.35              | 8525/IH            | BANDmaster T1 IMUX with integrated DSU/CSUs, DCS, SNMP, APS, supports 4 T1 and 2 V.35 ports                     |
| BANDmaster 4 T1 IMUX with 1 V.35 and Router   | 8525/IH-PC         | BANDmaster T1 IMUX, DCS, SNMP, APS, supports 4 T1 and 1 V.35 port, single Ethernet port, <b>PACKET</b> core     |
| BANDmaster 4 T1 IMUX with 2 RS-530            | 8525/IHR           | BANDmaster T1 IMUX with integrated DSU/CSUs, DCS, SNMP, APS, supports 4 T1 and 1 RS-530 ports                   |
| BANDmaster 4 T1 IMUX with 1 RS-530 and Router | 8525/IHR-PC        | BANDmaster T1 IMUX, DCS, SNMP, APS, supports 4 T1 and 1 RS-530 port, single Ethernet port, <b>PACKET</b> core   |
| BANDmaster 4 E1 IMUX with 2 V.35              | 8545/IH            | BANDmaster E1 IMUX with integrated DSU/CSUs, DCS, SNMP, APS, supports 4 E1 and 2 V.35 ports                     |
| BANDmaster 4 E1 IMUX with 1 V.35 and Router   | 8545/IH-PC         | BANDmaster E1 IMUX, DCS, SNMP, APS, supports 4 E1 and 1 V.35 port, single Ethernet port, <b>PACKET</b> core     |
| BANDmaster 4 E1 IMUX with 2 RS-530            | 8545/IHR           | BANDmaster E1 IMUX with integrated DSU/CSUs, DCS, SNMP, APS, supports 4 E1 and 2 RS-530 ports                   |
| BANDmaster 4 E1 IMUX with 1 RS-530 and Router | 8545/IHR-PC        | BANDmaster E1 IMUX, DCS, SNMP, APS, supports 4 E1 and 1 RS-530 port, single Ethernet port, <b>PACKET</b> core   |
| TRANSmaster 4 T1 with 2 V.35                  | 8525/CH            | TRANSmaster T1 ADPCM transcoder, DCS, SNMP, APS, supports 4 T1 and 2 V.35 ports                                 |
| TRANSmaster 4 T1 with 1 V.35 and Router       | 8525/CH-PC         | TRANSmaster T1, DCS, SNMP, APS, supports 4 T1 and 1 V.35 port, single Ethernet port, <b>PACKET</b> core         |
| TRANSmaster 4 T1 with 2 RS-530                | 8525/CHR           | TRANSmaster T1 ADPCM transcoder, DCS, SNMP, APS, supports 4 T1 and 2 RS-530 ports                               |

| <b>Item</b>                               | <b>Part Number</b> | <b>Description</b>  |
|---|--------------------|---|
| TRANSmaster 4 T1 with 1 RS-530 and Router | 8525/CHR-PC        | TRANSmaster T1, DCS, SNMP, APS, supports 4 T1 and 1 RS-530 port, single Ethernet port, <b>PACKET</b> core |
| TRANSmaster 4 E1 with 2 V.35              | 8545/CH            | TRANSmaster E1 ADPCM transcoder, DCS, SNMP, APS, supports 4 E1 and 2 V.35 ports                           |
| TRANSmaster 4 E1 with 1 V.35 and Router   | 8545/CH-PC         | TRANSmaster E1, DCS, SNMP, APS, supports 4 E1 and 1 V.35 port, single Ethernet port, <b>PACKET</b> core   |
| TRANSmaster 4 E1 with 2 RS-530            | 8545/CHR           | TRANSmaster E1 ADPCM transcoder, DCS, SNMP, APS, supports 4 E1 and 2 RS-530 ports                         |
| TRANSmaster 4 E1 with 1 RS-530 and Router | 8545/CHR-PC        | TRANSmaster E1, DCS, SNMP, APS, supports 4 E1 and 1 RS-530 port, single Ethernet port, <b>PACKET</b> core |
| HUBmaster 5-Port Ethernet Hub             | 8575H5             | HUBmaster 5 port 10/100 Mb Ethernet hub module  |
| DATAmaster 4-Port                         | 8615HP             | DATAmaster quad V.35, V.36, RS-530, RS-449, RS-232, X.21 programmable data interface                      |
| PORTmaster 4-Port Hub/Terminal Server     | 8585-TS            | PORTmaster four port hub/terminal server  |
| MASTERview NMS                            | 8000NMS            | MASTERview web based network management system (unlimited device license), one server load license        |
| PACKETport                                | 800PP              | PACKETport IP router, edge IP router integrates with any <b>MASTER</b> series module                      |
| TELEport                                  | 800TP              | TELEport FXS interface adapter, converts any <b>MASTER</b> series V.35 port into full function POTS line  |

### **MASTERseries Accessories**

|  |          |  |
|--|----------|--|
| 2-slot Enclosure 23-inch Rack Mount adapter kit  | 80204    | MASTERseries 23-inch rack mount adapter kit for 8015 dual slot enclosure   |
| 2-slot Enclosure Front Access Panel              | 80200    | MASTERseries 2-slot encl. 19-inch rack front load access panel (4 DB25, 8 RJ48C, NMS port, FXS port)                             |
| Front Access Cable Kit                           | 80201    | MASTERseries single application module front load access cable kit (one required for each module)                                |
| TELEport Front Access Cable Kit                  | 80203    | TELEport front load access adapter cable kit (required for <b>TELE</b> port front access)  |
| 16-Port E1 Balun Panel                           | 80500-16 | MASTERseries 16 port E1 balun panel to convert dual Amphenol (50-pin) or 16 RJ48C interfaces to 75 Ohm coaxial female interfaces |
| E1 Balun 120-ohm RJ48C jack to 75-ohm BNC female | 80450-F  | MASTERseries RJ48C female to 75 Ohm coaxial female balun   |

| <b>Item</b>                               | <b>Part Number</b> | <b>Description</b>  |
|---|--------------------|---|
| E1 Balun 120-ohm RJ48C to 75-ohm BNC male | 80450-M            | MASTERseries RJ48C female to 75 Ohm coaxial male balun  |
| 8-Port E1 Balun Panel                     | 80450-8            | MASTERseries eight port front load access balun panel (to mount up to 8 Baluns in 1 RU)               |
| RJ48C T1/E1 cable 2 ft.                   | 80451-02           | MASTERseries RJ48C male to RJ48C male cable, 2 feet   |
| RJ48C T1/E1 cable 1 ft.                   | 80451-01           | MASTERseries RJ48C male to RJ48C male cable, 1 feet   |
| Management Cable                          | 80001/NM           | MASTERseries network management cable (RJ45 male to DB9 female, 15 feet)                              |
| Management Cable                          | 80001/Y            | MASTERseries network management Y-cable (RJ45 male to DB9 female, 15 feet)                            |
| Management Cable                          | 80001/YM           | MASTERseries network management modem Y-cable (RJ45 male to dual RJ45 male, 15 feet)                  |
| V.35 Female Adapter Cable 6 ft.           | 80002/V.35         | MASTERseries data port adapter (DB25 male to Winchester female, 6 feet)                               |
| V.35 Male Adapter Cable 6 ft.             | 80002/V.35M        | MASTERseries data port adapter (DB25 male to Winchester male, 6 feet)                                 |
| DB15 Female to RJ48C (M) cable 15 ft.     | 80003/MF           | MASTERseries T1 link adapter cable (RJ48C male to DB15 female, 15 feet)                               |
| DB15 Male to RJ48C (M) cable 15 ft.       | 80003/MM           | MASTERseries T1 link adapter cable (RJ48C male to DB15 male, 15 feet)                                 |
| Adapter Module Y cable                    | 800Y               | MASTERseries single adapter module Y-cable (allows simultaneous operation of 2 plug-on adapters)      |
| Single-Slot Enclosure Wall Mount          | 8010WM             | MASTERseries single slot enclosure wall mount kit   |
| 2-Slot Enclosure Wall Mount               | 8015WM             | MASTERseries dual slot enclosure wall mount kit   |
| 8-Slot Enclosure Blank Panels             | 8000BP             | MASTERseries 8-slot enclosure blank panel set (supports 1 empty slot, includes front and rear panels) |
| 2-Slot Enclosure Blank Panels             | 8015BP             | MASTERseries 2-slot enclosure blank panel set (supports 1 empty slot, includes front and rear panels) |
| Application Module Bezel Set              | 8000BEZ            | MASTERseries bezel set (for application module reuse from a 2-slot to an 8-slot or single slot)       |
| DB25 Patch Panel 16-Port                  | 80202/16           | 16 port DB25 front load access patch panel (does not include break out cables)                        |
| RJ48C Patch Panel 16-Port                 | 80804/16           | 16 port RJ48C front load access patch panel (does not include break out cables)                       |
| RJ48C Patch Panel 32-Port                 | 80804/32           | 32 port RJ48C front load access patch panel (does not include break out cables)                       |
| RJ48C Patch Panel Break-out Cable, 2 ft   | 80105/4            | 4 Port RJ48C to front load access patch panel break out cable, 2 feet                                 |
| DB25 Patch Panel Break-out Cable          | 80106              | DB25 to DB25 front load access patch panel break out cable  |
| 15 ft T1 Cable RJ48C plug one end         | 80003-15MUT        | T1 link adapter cable (RJ48C male to unterminated, 15 feet)   |
| 30 ft T1 Cable RJ48C plug one end         | 80003-30MUT        | T1 link adapter cable (RJ48C male to unterminated, 30 feet)   |

| <b>Item</b>                       | <b>Part Number</b> | <b>Description</b>  |
|-----------------------------------|--------------------|---|
| 40 ft T1 Cable RJ48C plug one end | 80003-40MUT        | T1 link adapter cable (RJ48C male to unterminated, 40 feet)   |
| RS-530 to RS-449 Adapter Cable    | 80004              | Port adapter cable RS-530 to RS449. Can be used with <b>MASTER</b> series or <b>BROAD</b> way.      |
| RS-530 to X.21 Adapter Cable      | 80005              | Port adapter cable RS-530 to X.21. Can be used with <b>MASTER</b> series or <b>BROAD</b> way.       |
| RS-530 to RS-232 Adapter Cable    | 80006              | Port adapter converter RS-530 to RS-232. Can be used with <b>MASTER</b> series or <b>BROAD</b> way. |
| V.35 to RS-232 DB25 Adapter Cable | 80007              | Port adapter converter V.35 to RS-232. Can be used with <b>MASTER</b> series or <b>BROAD</b> way.   |