## C4® and C4c™ CMTS
### 24 Upstream Cable Access Module (24U CAM) Technical Specifications

### Specifications

#### RF Upstream
- **Frequency Range (MHz)**: 5 to 85 (5 to 65 with Software Release 8.0)
- **Modulation**: QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM
- **Channel Type**: TDMA, ATDMA, TDMA/ATDMA, SCDMA
- **Data Rate (Mbps) (Max.)**: 30.72 per channel
- **RF Input Level (dBmV)**: -16 to +29
- **Frequency Resolution (KHz)**: < 1
- **Symbol Rate (Ksym/sec)**: 160, 320, 640, 1280, 2560, 5120
- **Bandwidth per Channel (MHz)**: 0.2, 0.4, 0.8, 1.6, 3.2, 6.4

#### Physical
- **Power**: -48 VDC (-44 to -72 VDC)
- **Power Consumption**: 100 W nominal and 125 W max at -48 VDC, 77°F (25°C)
- **Operating Temperature**:
  - **Short Term °F (°C)**: +23 to +131 (-5 to +55)
  - **Long Term °F (°C)**: +41 to +104 (+5 to +40)
- **Storage Temperature °F (°C)**: -40 to +158 (-40 to +70)
- **Operating Humidity (Min.-Max.)**: 5 to 85% (Non condensing)
- **Dimensions (H x W x D) in. (cm)**: 15.8 x 0.8 x 15.0 (40.0 x 1.9 x 38.1)
- **Weight lbs. (kg)**: approx 4 (1.8)

### Support with Software Release 8.0 (Partial Feature List)

- **24U CAM**
  - Flexible Mapping of Upstream Channels to F Connectors
  - Up to 12 Upstream Channels per F Connector
  - Up to 9+1 RF Sparing
  - BPI/BPI+ Support
  - DOCSIS® 3.0 Multicast IP Video Support
  - IGMPv3 Control and CAC
  - IS-IS (including Multi-topology (MT)), BGPv4
  - TFTP Enforce and Dynamic MIC (IPv4 or IPv6)
  - IPv6 Phase 3
  - Cable Source Verify with DHCP Lease Query
  - Route Injection (RI) for DHCPv6 Prefix Delegation
  - OSPFv3
  - DOCSIS 3.0 Eight Channel Bonding (Downstream)
  - DOCSIS 3.0 Four Channel Bonding (Upstream)
  - Cross-MAC Domain Dynamic Load Balancing
  - Dynamic Cable Modem Load Balancing
  - BSoD L2 VPN
  - BPI+ Enforce
  - IPDR/SP
  - Integrated Upstream Agility
  - PIM-SSM, IGMPv2, and static multicast
  - RIPv2 (RFC 1723), OSPFv2 (RFC 2328)
  - Policy-Based Routing
  - PacketCable™ Multimedia Support
  - Additional Classifier Support (for MGPI applications)
  - SII Lawful Intercept (RFC 3924)
  - In-chassis Mixed Annex A & Annex B support
  - 802.1Q VLAN tagging
  - Extended ACLs & Named ACLs
  - Secure Shell v2 (SSHv2)
- **BPI/SP**
  - IPSec
  - IS-IS (including Multi-topology (MT)), BGPv4
  - TFTP Enforce and Dynamic MIC (IPv4 or IPv6)
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## Ordering Information

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<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>790562</td>
<td>24U DOCSIS/EuroDOCSIS™ CAM Kit (Even): 1 x 24U CAM, Even CAM PIC, and SW for C4 CMTS</td>
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<tr>
<td>790563</td>
<td>24U DOCSIS/EuroDOCSIS CAM Kit (Odd): 1 x 24U CAM, Odd CAM PIC, and SW for C4 CMTS</td>
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<tr>
<td>790564</td>
<td>24U DOCSIS/EuroDOCSIS CAM Kit (Spare): 1 x 24U CAM, Spare CAM PIC, and SW for C4 CMTS</td>
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<tr>
<td>794069</td>
<td>24U DOCSIS/EuroDOCSIS CAM Kit (Even): 1 x 24U CAM, Even CAM PIC, and SW for C4c CMTS</td>
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<tr>
<td>794070</td>
<td>24U DOCSIS/EuroDOCSIS CAM Kit (Odd): 1 x 24U CAM, Odd CAM PIC, and SW for C4c CMTS</td>
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### Maintenance Plan (required)

<table>
<thead>
<tr>
<th>Part Number</th>
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<tbody>
<tr>
<td>708387</td>
<td>Software Maintenance – Phone Plus Gold</td>
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