COMMSCOPE   DCAM-2

DOWNSTREAM CABLE ACCESS MODULE 2 FOR THE E6000

DCAM-2 provides a total of 16 physical ports per slot, delivering a 2x improvement in DS-SG as compared to the Gen 1 DCAM. For each of these 16 physical ports, DCAM-2 supports a downstream RF band up to 1.2 GHz. In addition, DCAM-2 is capable of supporting multiple 192 MHz OFDM channels per port. With these capabilities, DCAM-2 enables more service groups per chassis with more throughput in each service group. Operators receive significant benefits in terms of operational simplicity, cost savings, and competitive advantages by deploying DCAM-2. Use of DCAM-2 requires the RSM-2. DCAM-2 is not compatible with the Gen 1 RSM.

- 16 Physical Ports per Module (requires DPIC-2)
- Full Spectrum Capable (108 MHz to 1218 MHz)
- DCAM-2 Hardware Capable of Up to Four (4) Output Blocks per Port (Support in Software Determined by Release)
- SC-QAM Output Block Supports Up to 32 SC-QAMs (Annex B) or 24 SC-QAMs (Annex A)
- OFDM Output Block 192 MHz Wide
- 48 SC-QAMs (Max 32 DOCSIS/EuroDOCSIS) plus 192 MHz OFDM per Port in Rel. 5.0
- 48 DOCSIS SC-QAM maximum per Port in Rel. 5.0 (Annex B, without IEQ or OFDM)
- Additional SC-QAM and/or OFDM Density per Port in Later Releases (No Hadware Changes Required)
- Downstream MAC Processing for Remote PHY Operation on the E6000 CER Acting as a CCAP Core (Future Software Upgrade)

DCAM-2 OPERATIONAL DIFFERENCES COMPARED TO DCAM GEN 1

- DCAM-2 requires DPIC-2, does not operate with DPIC (Gen 1)
- DPIC-2 uses MCX connectors (not F connectors like DPIC (Gen1))
- DCAM-2 does not have an RF test port (but power measurements are available in software via the DPIC-2)
- DCAM-2 does not support SC-QAMs in the spectrum below 108 MHz
- DCAM-2 is not compatible with the Gen 1 RSM, and the Gen 1 DCAM is not compatible with the RSM-2

SPECIFICATIONS

RF DOWNSTREAM	
Frequency Range (MHz)	108 to 1218 (edge to edge)
Modulation (QAM)	All required by DOCSIS 3.0 and DOCSIS 3.1 (Specific software support varies by release)
Max OFDM Channel Width (MHz)	192 (Multiple channels supported per port)
Max SC-QAMs per Port	128 (Sum total DOCSIS and IEQ)
SC-QAM Data Rate (Mbps)	30.34 to 55.62 per channel
SC-QAM RF Output Level	25 to 60
PHYSICAL	
Power	-48 VDC
Power Consumption:	540 (typical at 25°C)
Operating Temperature: Short Term °F (°C) Long Term °F (°C)	+23 to +131 (-5 to +55) +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)	13.8 x 1.2 x 17. 8 (35.0 x 3.0 x 45.3)
Weight lbs. (kg)	approx. 10.2 (4.6)
INSTALLATION ENVIRONMENT (SYSTEM LEVEL)	
Management Interfaces	100/1000 Mbps Ethernet (RJ-45) plus Console (serial port, RJ45)
NSI Connector Access	RSM-2 ports via front of chassis, RPIC-2Q ports via rear
MANAGEMENT ACCESS (SYSTEM LEVEL)	
In-band Management with Access Control Lists via any NSI port	
Out-of-Band Management via dedicated Ethernet port on RPIC-2Q	
Console (serial) port on RPIC-2Q	

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1000506	DCAM-2 (Must purchase PN 1000488 – 128 DS DOCSIS 3.0 licenses with this item)
1000488	128 INITIAL DS D3.0 DCAM-2 Annex A License Bundle – For Channels 1-128
1000600	160 INITIAL DS D3.0 DCAM-2 Annex A License Bundle – For Channels 1-160
1000489	192 INITIAL DS D3.0 DCAM-2 Annex A License Bundle – For Channels 1-192
1000490	256 INITIAL DS D3.0 DCAM-2 Annex A License Bundle – For Channels 1-256
1000493	128 INITIAL DS D3.0 DCAM-2 Annex B License Bundle – For Channels 1-128
1000601	160 INITIAL DS D3.0 DCAM-2 Annex B License Bundle – For Channels 1-160
1000494	192 INITIAL DS D3.0 DCAM-2 Annex B License Bundle – For Channels 1-192