



Specifications

This appendix lists the specifications for the Cisco DVB CAR100.

Description	Specification
Downstream Communication	
Channel bandwidth	8 MHz
Modulation scheme	QPSK (QAM 4), QAM 64
Symbol rate	6.8 Mbaud, 6.875Mbaud, or 6.9 Mbaud
Channel bit rate (raw)	41.4 Mpbs (64 QAM and 6.9 Mbaud)
FEC	Reed-Solomon decoder (204,188)
Framing	MPEG, DSM-CC MPE, Direct IP, or MPE Ethernet encapsulation (Logical Link Control [LLC])
Receiver Input	
Input level	Min.:Better than 47 dB V (typically 42 dB V) Max.:70 dB V
Frequency range	110 to 862 MHz
Tuning step size	62.5 kHz
Impedance level	75 Ohm
Return loss	7.5 dB ¹

Description	Specification
Upstream Communication	
Modulation scheme	QPSK
Channel bandwidth	1 and 2 MHz
Symbol rate	1.544 Mbaud
Channel bit rate (raw)	3.088 Mbps (QPSK and 1.544 Mbaud))
FEC	Reed-Solomon encoder, (59, 53) corrects up to 3 of 53 bytes
Burst length	63 bytes + 1 byte guard 1 ATM cell per burst
Framing	ATM adaption layer (AAL) 5 Direct IP or AAL5 Ethernet Encapsulation (LLC)
Transmitter Output	
Signal level	85-120 dB μ V RMS
Frequency range	5-65 MHz
Tuning step size	50 kHz
Impedance level	75 Ohm
Spurious in other channels	-45 dB ¹

Description	Specification
Standards Compliance List	DVB-C (ETS 300 429)
	DVB-RCC (ETS 300 800, November 1998)
	DVB-DATA (EN 301 192)
	RFC 791 IP
	RFC 792 ICMP
	RFC 951 BOOTP
	RFC 1213, 1441-1445, 1447-50, 1452-SNMPv2c
	RFC 1215 SNMP Traps
	RFC 1350 TFTP
	RFC 1483 Multiprotocol Encapsulation over AAL 5
	RFC 1532 DHCP/BOOTP Relay
	RFC 2236 IGMPv2
	IEEE 802.3 Ethernet 10BaseT
	IEEE 802.2 LLC
EuroModem Specification ¹	
Power	
Supply	9 to 15 V DC
Power consumption	Maximum 15W
Safety	UL1950, CSA 22.2, EN 60950
EMC and Safety	
Emission	EN 55022 Class B
Immunity	EN 50082-1
Safety	EN 60950

Description	Specification
Dimensions and Weight	
Dimensions (H x W x D)	Approx. 7.85 x 9.77 x 1.77 in. (200 x 248 x 45 mm)
Weight	Approx. 1.8 lb (800 g) excl. power supply
Environmental	
Operating temperature	5 to 40°C (41 to 104°F)
Storage temperature	-25 to 55°C (-12 to 131°F)
Humidity	0 to 90%, noncondensing
User Interface (Ethernet)	
LAN interface	10 Mbps
Framing	IEEE 802.2, Ethernet 802.3 Media Access Control (MAC)
Connector	RJ-45

1. See specific deviations from the Euromodem specification.