TERAYON TJ 700x CABLE MODEM PLATFORM

Terayon's TJ 700x series of cable modems are a cable operator's future-proof solution for delivering high-speed Internet access today, and for delivering new services tomorrow.

MATURE, PROVEN PRODUCTS

Terayon, the leader in DOCSIS® 2.0 technology, was the first to offer an end-to-end DOCSIS 2.0 certified/qualified solution. The DOCSIS 2.0 certified TJ 715x represents Terayon's third generation of DOCSIS 2.0 modems and is the modem most widely deployed on cable systems running in DOCSIS 2.0 mode. Terayon's DOCSIS 2.0 products have been rigorously tested in both the field and laboratory for performance and to assure interoperability.

FUTURE-PROOF SOLUTION

Cable operators can deploy TJ 700x modems system-wide with the assurance that they will not become obsolete as operators upgrade from DOCSIS 1.0 to DOCSIS 1.1 and 2.0. The TJ 700x will grow with a system allowing operators to generate new revenue streams by offering services that require more upstream bandwidth such as on-line gaming, peer-to-peer file sharing and video teleconferencing.

INNOVATION REDUCES TOTAL COST OF OWNERSHIP

The TJ 700x modems are equipped with innovative features for easy installation. An embedded web page provides trouble-shooting tools that speed the identification of potential issues.



The TJ 700x family of cable modem platforms. DOCSIS 2.0 certified, the new TJ 700x series provides cable operators with a competitive edge for delivering advanced broadband services today and well into the future.

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"Plug and play" USB connections	Simplified installation	
10/100 BaseT Ethernet	Enhanced network flexibility	
DOCSIS 2.0 Technology	Increased upstream capacity and high immunity to noise	
LEDs - Power, Cable, PC, Data, Test	Immediate visual status reporting	
Lightning protection	Resistant to electrical surges	
Desk or wall mountable	Space saving and easily accessible	
SNMP management via DOCSIS MIBs	Remote administration	
IGMP Proxy	Supports multicast services	
Supports up to 32 PCs	Ideal for office networks	
Filtering via Ethernet, LLC and IP, operator configurable	Provides secure, shared Internet access	
Embedded web server	Easy and powerful troubleshooting for subscriber, customer service representative and/or field technician	
24/7/365 Technical Support	A trusted partnership	
Self-installable	Reduced technical support	



The TJ 715x offers easy-to-use troubleshooting tools via web pages that are embedded in every modem.



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	North America TJ 715x/TJ 716x	Europe TJ 720x/TJ 721x	Japan TJ 735x/TJ 736x		
CERTIFICATION	13 120// 13 120/	13 1200/ 13 1220	13 130// 13 130/		
	DOCSIS 1.1, 2.0	Euro-DOCSIS 1.0, 1.1 (TJ 720x)			
		Euro-DOCSIS 2.0 (TJ 721x)			
PHYSICAL					
Client PC	10/100Base-T, RJ-45	10/100Base-T, RJ-45	10/100Base-T, RJ-45		
	USB "B" type (USB can be disabled)	USB "B" type (USB can be disabled)			
CATV network	Female "F" type connector, 360° threaded for a	II models			
LEDs	Power, Cable, PC, Data, Test	Power, Cable, PC, Data, Test	Power, Cable, PC, Data, Test		
Dimensions - Modem	5.6" wide (14.20 cm); 6.70" deep (17.02 cm)	including length of RF connectors; 1.58" high (4.	.01 cm)		
INSTALLATION					
	Desktop: vertical or horizontal orientation Wal	II: vertical orientation			
PRODUCT WARRANTY					
	1 year	1 year	1 year		
OPERATING REQUIREMENT					
Operating temperature	32° to 104° F (0° to 40° C)	32° to 104° F (0° to 40° C)	32° to 104° F (0° to 40° C)		
Storage temperature	-4° to 140° F (-20° to 60° C)	-4° to 140° F (-20° to 60° C)	-4° to 140° F (-20° to 60° C)		
Humidity	10%-95% non-condensing	10%-95% non-condensing	10%-95% non-condensing		
Electrical	10-12V, 750 mA	10-12V, 750 mA	10-12V, 750 mA		
NETWORK MANAGEMENT					
	TJ 700 modems can be managed via any SNMF	2-management platform			
DOM/NOTDEAM DE CREGGES ATION	.5 . 00 moderno can be managed via any SINIVIE				
DOWNSTREAM RF SPECIFICATION	TILT LOOK	T	TUT 100 4		
• • • • • • • • • • • • • • • • • • • •	ITU-T J.83 Annex B	ITU-T J.83 Annex A	ITU-T J.83 Annex B		
Channel information bit rate for 256 QAM	38.810701 Mbps	51.253961 Mbps	38.810701 Mbps		
for 64-QAM	26.97035 Mbps	38.440471 Mbps	26.97035 Mbps		
Channel bandwidth	6 MHz	8 MHz	6 MHz		
Receive center frequency range	91-857 MHz	112-858 MHz	115-857 MHz		
	(Standard, HRC, IRC channels)				
Input level	-15 to +15 dBmV	+43 to +73 dBμV for 64 QAM	-15 to +15 dBmV		
		+47 to +77 dBμV for 256 QAM			
Input impedance	75 ohm	75 ohm	75 ohm		
C/N (Es/No) for 10-8 BER 64 QAM, 10 ⁻⁸ BER@C/N	≥23.54 dB	≥25.5 dB	≥23.54 dB		
256 QAM, 10 ⁻⁸ BER@C/N	≥30 dB (-6 to +15 dBmV)	≥31.5 dB (+54 to +77 dBµV)	≥30 dB (-6 to +15 dBmV)		
256 QAM, 10 ⁻⁸ BER@C/N	≥33 dB (-15 to -6 dBmV)	≥34.5 dB (+47 to +54 dBµV)	≥33 dB (-15 to -6 dBmV)		
UPSTREAM RF SPECIFICATION					
Modulation	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM and :				
Channel access	TDMA, A-TDMA, S-CDMA	TDMA, A-TDMA, S-CDMA	TDMA, A-TDMA, S-CDMA		
Channel transmission rate	320 kbps - 30.72 Mbps	320 kbps - 30.72 Mbps	320 kbps - 30.72 Mbps		
·	160 kSps - 5.12 MSps	160 kSps - 5.12 MSps	160 kSps - 5.12 MSps		
Channel bandwidth	200 kHz - 6.4 MHz	200 kHz - 6.4 MHz	200 kHz - 6.4 MHz		
Transmit frequency range	5 - 42 MHz	5 - 65 MHz	5 - 55 MHz		
Output power	+8 to +58 dBmV	+68 to +118 dBμV	+8 to +58 dBmV		
NETWORK LAYER					
Downstream performance	38 Mbps	50 Mbps	38 Mbps		
Upstream performance	29 Mbps	29 Mbps	29 Mbps		
Upstream concatenation	Supported	Supported	Supported		
Upstream rate limiting	Supported using Token Bucket algorithm for				
	all models				
SNMP	DOCSIS MIBs	DOCSIS MIBs	DOCSIS MIBs		
IGMP	IGMP Proxy to support multicast services for all	models			
CPE devices supported	32 32 32				
Filtering	Ethernet, LLC and IP filtering, operator-configura	able for all models			
IP Filtering Rules	32	32	32		
LLC Filtering Rules		32	32		
REGULATORY SPECIFICATIONS					
	EN 60950, TUV, UL 1950, CSA 950 CE Mark				
Salety Compilance	LIV 30330, TOV, OL 1330, C3A 930 GE WARK				

About Terayon

As the world's leading provider of innovative digital video networking applications and home access solutions, Terayon accelerates the evolution to the all-digital network. Headquartered in Santa Clara, California, Terayon has sales and support offices worldwide, and is traded on the NASDAQ under the symbol TERN. Terayon can be found on the web at www.terayon.com.

EMC FCC Class B, CISPR 22 Class B, VCCI Class B, BS EN55024, EN6 1000-3-2, EN6 100-3-3, BS EN55022 Class B, ICES-003 Class B. AS/NZS 3548



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