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Headend Controller (CDC)

IP/3G

Device used for the remote control and monitoring of a T.OX Televes headend. The IP-network access methods are implemented using an Ethernet 10/100 Mbps interface, or a 3G internal modem for ref.555911. These devices establish a connection with a Link server located in the Televes premises, which provides direct connection between installer and headend.

Ref.5559	Via IP	
Art.Nr		CDC-IP/HE
EAN13		8424450141564
Ref.555911	Via IP/3G	
Art.Nr		CDC-IP/3G
EAN13		8424450197899

Main features

- Headend management and control is carried out by a centralized service called "Televes Services". This portal is located in a Televes Server Centre accessible to the user through authentication
- Equipped with a RISC Microcomputer and GNU/Linux Operating System, which ensure reliability in interface, protocol and peripheral device management

Technical specifications

CPU	Processor		ARM920T™
Memories	Type		8 MB Flash 64 MB SDRAM 128M x 8 bit NAND Flash Memory
Interfaces Connectors	T.OX powering	Vdc	24
	Interface		RS-485
	Interface		USB 2.0 Full Speed Host (12 Mbps)
	SIM interface		SIM cards reader
	RJ45 connector		10/100 Base-T Ethernet
	RJ45 connector		Debugging / LCD programmer
	GSM Antenna connector		F connector
GSM/GPRS Radio interface	Transmission power		GSM-850/900 Power peak 2W RF (+33dBm) over 50 Ohm DCS-1800/PCS-1900 Power peak 1W RF (+30dBm) over 50 Ohm
	Reference Sensitivity		GSM-850/900 - 107dBm DCS-1800/PCS-1900 - 107dBm
	Antenna gain	dBi	1,5 ≤ Gain < 3 (reference: λ/2 dipole)
	GPRS type		CLASS 10
	GPRS encoding schemes		CS1, CS2, CS3 and CS4
	GPRS max. downlink transmission rate	Kbps	85,6
	GPRS max. uplink transmission rate	Kbps	48,8
	Packet Broadcast Control Channel		Yes
	VSWR (Voltage Standing Wave Ratio) max. absolute		≤ 5:1
	VSWR (Voltage Standing Wave Ratio) recommended		≤ 2:1
	Input power (peak)	W	>2
	Antenna impedance	Ohm	50
	Bandwidth	MHz	GSM 850: 70 GSM 900: 80 DCS: 170 PCS: 140
	Peripherals		
Operative System			Digital thermometer
Operative System			Linux Kernel 2.6.16
General	Powering	Vdc	24
	Consumption	mA	300
	Operating temperature	°C	-5 ... +45
	Protection index	IP	20