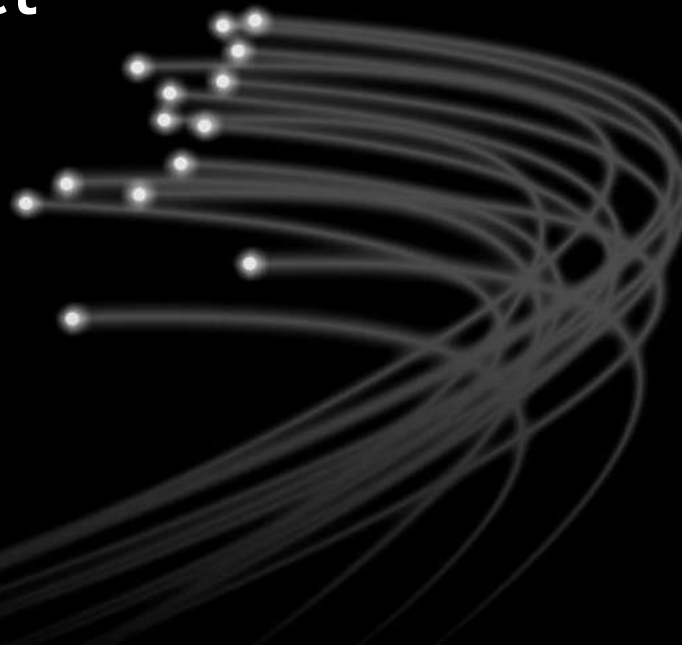# UPTECH
SENSING

A nervous system for your asset

UTS-CU1000
Datasheet

UTS-CU1000

Equipment

The UTS-CU1000 equipment is a control unit that allows the configuration, management and visualization of the data of the equipment of the UPTECH SENSING company. It deploys the UTS-nerVision software and is compatible with the 1000 series of Distributed Fiber Optic Sensor (DFOS).

In addition to communication with 1000 series DFOS equipment, the UTS-CU1000 allows communication with central servers and / or SCADA systems, enabling automation and control of DFOS measurement equipment and remote display of the status of the asset to be monitored.

The UTS-CU1000 equipment is developed to meet the highest quality standards.

Features

〰 High-performance processor for real-time analysis of monitoring data

〰 Communication with serial port (RS-232/422/485), Ethernet and USB for connection with other devices

〰 Redundant array of independent disks (RAID) to prevent data loss

Compatible

UTS-BB1000

Distributed fiber-optic equipment for absolute measurement of temperature and strain (DTSS). Equipment used to measure changes that evolve slowly over time (~ minutes)

UTS-FB1000

Real-time distributed fiber-optic equipment for absolute measurement of temperature and deformation (RT-DTSS). Equipment used to measure changes that evolve rapidly over time (~ milliseconds)

UTS-AS1000

Distributed acoustic sensor (DAS) for relative measurement of temperature and deformation. Equipment used to detect acoustic events.

Energy

Pipeline

Civil infrastrcuture

Industrial

UTS-CU1000

Datasheet		
Funcionalidades	Storage	1 x SDD (operating system) 1 x HDD (data storage)
	RAID	Integridad de datos (2 x HDD)
	Operating system	Linux (Ubuntu 18.04.4 LTS)
	Installed Applications	UTS-nerVision (see datasheet) SSH server for remote communication Rsyslog functions
	Protocol	Remote Authentication Dial-In User Service support
Electrical requirements	Voltage	24Vcc / 100-240 Vac (47-63 Hz)
	Power	Typical 300W – Max. 500 W
Physical specifications	Dimensions (W x H x D)	482 x 134 (3U) x 460 mm
	Electrical interface	SMA 50Ω connection (x3)
	Ethernet	LAN 1: 1 x Intel® I210 with 10/100/1000 Mbps, RJ45 LAN 2: 1 x Intel® I219LM with 10/100/1000 Mbps AMT/vPro, RJ45 hot/stand-by mode
	COM	COM1, 2 (RS232/422/485)
	USB	4x USB 3.1
	Display port	1 x HDMI 1.4, 2 x DP 1.2 y 1xVGA
	PS2	1
	Weight	10 kg
Enviromental conditions	Operating temperature	-5ºC – 50ºC
	Storage temperature	-5ºC – 60ºC
	Humidity	0-95% (No condensation)
	IP	IP31

[1] An additional space of more than 60mm should be considered at the bottom of the UTS-CU1000 for the connectors and power cables.

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Ordering information:

UTS-CU1000-P-R-TB-AC

P = Power Supply

R = RAID configuration

TB = Data storage

AC = Data adquisition card

☐	☐	☐☐	☐☐
100-240 Vac = 1	1 x HDD = 1 (D*)	1 TB = 01	1 Channel; 300MHz = 13
24 Vcc = 2	2 x HDD & RAID = 2	2 TB = 02	1 Channel; 500MHz = 15
		4 TB = 04 (D*)	2 Channels; 300MHz = 23
		8 TB = 08	
		12 TB = 12	

(D*) Default

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