

NETWorker-HUB

Wireless Interface Module - Wi-Fi, Bluetooth, 3G and COFDM TX

Overview:

DTC's NETWorker-HUB is a combined COFDM transmitter, video recorder and 3G camera interface module. Its durable design, compact dimensions and low weight make it perfect for covert installations and deployment in harsh environments.

Utilising SOLO7 Nano Transmitter technology, the NETWorker-HUB is able to interface to a video camera and transmit the data over COFDM, 3G or WLAN. The NETWorker-HUB can send and receive video streams or data traffic via Ethernet, and a 2G/3G modem in the unit enables users to control and command the COFDM and 3G modems.

The NETWorker-HUB employs ultra-low latency, High Profile H.264 (MPEG-4 AVC) encoding for excellent image quality over the wireless link. MPEG-4 ASP video encoding also enables backward compatibility with older DTC video transmission products.

Equipped with a Penta-band HSPA+ modem and switchable dual SIM capability, the NETWorker-HUB provides advanced 3G modem capability making best use of available bandwidth with dual diversity antennas.



Features and Benefits:

ARM Cortex processor with Linux OS

Micro-SD slot (128GB capacity) for recordings

Ethernet 10/100/1000

2.4GHz WLAN

Bluetooth 2.0

USB 2.0 On-The-Go

Stereo audio input and output

3G - Penta-band HSPA+, quad-band EDGE, quad-band GPRS, dual SIM, GPS

Controlled by a web browser interface or SMS text

Optional AES encryption

Product Information:

Product Includes

RF antenna	Omni antenna to match the transmitter frequency band
AP007373 x 2	3G Pentaband antenna (AMPS/900/1800/2100/2400)
AP007375	2.4GHz Wi-Fi antenna
AP007835	14dBi GPS antenna 4m
CA0002	Power lead Lemo to banana plugs
CA0023	12V power block to Lemo (requires mains cable option)
CA2519	Fischer 5-way power cable
CA2520	Fischer 10-way AV/PTZ cable
CA2521	Fischer 10-way Ethernet cable
CA2522	Fischer 10-way USB Micro B cable
SA3537	NETWorker-HUB USB support stick

Accessory Options (sold separately)

AP000481	UK mains power cable for CA0023
AP001483	US mains power cable for CA0023
AP004634	EU mains power cable for CA0023
AP007192	AU mains power cable for CA0023

Related Documents

100162	NETWorker-HUB User Guide
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Technical Specification:

IO

Composite video	Fischer UltiMate to BNC
Ethernet	Fischer UltiMate to RJ45
Stereo audio	Fischer UltiMate to phono
USB control	Fischer UltiMate to Micro-B USB
RS232 data	Fischer UltiMate to 9-way D-type
Power	Fischer UltiMate to 4-way Lemo
WLAN/BT	SMA (m)
3G	SMA (f) x 2
GPS	SMA (f)
RF output	SMA (f)

RF

Power	100mW, 50mW, 10mW modes
Tuning steps	125kHz

DVB-T Modulation

Bandwidth	8MHz, 7MHz, 6MHz
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Bitrates	3.732Mbps to 31.668Mbps

Narrowband/UMVL Modulation

NB bandwidth	2.5MHz, 1.25MHz, 625kHz
UMVL bandwidth	8MHz, 7MHz, 6MHz
FEC	1/3, 2/3
Constellation	QPSK, 16QAM, BPSK, 8PSK
Guard interval	1/8, 1/16
NB bitrates	144kbps to 4.879Mbps
UMVL bitrates	1.317kbps to 14.869Mbps

Video

Input format	PAL, NTSC (with or without pedestal)
H.264 compression	AVC/H.264/MPEG-4 Part 10 High profile level 4.0
ASP compression	ASP/MPEG-4 Part 2 (NB modulation only)
Coding options	Horizontal scaling of 3/4, 2/3, 1/2, 1/4 Vertical scaling of 1/2, 1/4 Sub-frame rate of 1/2, 1/4, 1/8, 1/24
Encoder delay	1s to 40ms (mode dependent)
Encoder bitrates	0.25Mbps to 32Mbps

Audio

Audio input	Analogue stereo pair or differential mono
Sample rate	32kHz, 48kHz
Coding modes	Two channels stereo or mono MPEG Audio Layer 1 64-448kbps MPEG Audio Layer 2 32-384kbps

WLAN/BT

WLAN	IEEE 802.11 b, g, n (2.4 GHz)
BT	2.1+EDR, class 1.5 and 4.0

GSM Frequencies (3G option)

GSM/GPRS/EDGE	850, 900, 1800, 1900
UMTS/HSPA	800/850, 900, AWS1700, 1900, 2100

GSM Data (3G)

HSPA uplink	5.76Mbps
HSPA downlink	Up to 21Mbps
UMTS	Up to 384kbps
EDGE uplink	Up to 236.8kbps
EDGE downlink	Up to 296kbps

GPS (3G)

Sensitivity	Down to -165dBm
Accuracy	3m

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Technical Specification (con't):

Encryption

Standard	ABS 32-bit
Licensed	AES128/AES256-bit (subject to export control)

Control

Remote control	Web interface over Ethernet or wireless over WLAN
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Power

DC input	9-16V
Power consumption	<10W

Physical

Dimensions	120mm x 100mm x 28mm approx.
Weight	270g

Environment

Temperature range	-10°C to +50°C
Sealing	IP66

Frequency

100150	1.00-1.50GHz
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Software License Code

Silver - SOLO7NTX (included)	DVB-T, Ultra Mobile Video Link (UMVL), MPEG-4 H.264
Gold - SOLO7NTX	Silver plus Narrowband 1.25/2.5MHz, MPEG-4 ASP
Platinum - SOLO7NTX	Gold plus Narrowband 625kHz
AES128TX	AES 128-bit encryption
AES256TX	AES 256-bit encryption

Export of encrypted products is subject to United Kingdom regulatory export controls.

For further information contact your Sales Account Manager, one of our Regional Sales Offices, or email solent.enquiries@domotactical.com

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