





DATASHEET: OCTOBER 2019



... a first of its kind solution for a stable, secure and controlled network!

DHB-BUNDLE - DHB-MANAGER - DHB-MANAGER-SLIM - DHB-SWITCH

DIVUS HEARTBEAT

HARDWARE-SOFTWARE SOLUTION FOR NETWORK MANAGEMENT

	DHB-BUNDLE	DHB-MANAGER	DHB-MANAGER-SLIM	DHB-SWITCH
Type of design	DIVUS HEARTBEAT is a harc innovative manager. Integra connection between DIVUS as well as the end-user sucl monitoring, usage analytics system reports	ensures a secure and stable benefit system integrator ation, system scan, real-tim		
VERSIONS				
Туре	DHB-Bundle	DHB-Manager	DHB-Manager-slim	DHB-Switch
Description	DIVUS Heartbeat Manager bundled with DHB-Switch rack mountable	DIVUS Heartbeat Manager rack mountable	DIVUS HEARTBEAT Man- ager slim - case in desktop version	DIVUS MANAGED SWITCH - POE+ capable managed 8 port-switch
GENERAL HARDWARE SPECIFI	CATION			
Power supply	100-240VAC, 50/60Hz12 VDC100-240VAC, 50/60Hz100-240VAC, 50/60Hzwith external power supp		100-240VAC, 50/60Hz	
Power consumption	Max. 5A (100 VAC)	Max. 1A (100 VAC) /max. 0	,55A (240VAC)	Max. 4A (100 VAC)
Dimension (WxDxH)	483 x 200 x 88, 2U	330 x 200 x 43.5 mm, 1U	170 x 160 x 30 mm	330 x 200 x 43.5 mm, 1U
Weight	ca. 3.5 kg	ca. 1.5 kg	ca. 0.5 kg	ca. 2.0 kg
Temp. range (operating)	Temperature: +5°C +45°C Relative humidity: 5% 80% at 25°C (no humidity/condense)			nse)
Temp. range (storage)	Temperature: -10°C +60°C Relative humidity: 5% 80% at 25°C (no humidity/con			nse)
Rating	IP20 according EN 60529			
EMC	EN 55011, 55022, 500081			
Authorization	CE			
GENERAL CHARACTERISTICS				
Processor	AMD G series GX-412TC, 1 GHz quad core (Jaquar core) with 64 bit support			-
Memory	2 GB DDR3-1333 DRAM -			-
Storage medium	High quality flash storage			-
Guarantee	24 Months*	24 Months*	24 Months*	24 Months*
CONNECTIVITY				
Home LAN-WAN	1 x RJ45 connected to home internal network			-
Residential intercom	1 x RJ45 high secure LAN firewall protection			-
DIVUS SECURE INTRANET	1 x RJ45 secure LAN firewall protection			-
Console Serial Port	1 x DB9 Basic config (19200 8, N, 1)			1 x RJ45 (115200,8,N,1)
USB	2 x basic config			-
POE standard IEEE 802.3af/802.3at PoE/PSE	8 x PoE+(Port1-8),total PoE+ power budget control,max. 30.8W per port(240 W total)	-	-	8 x PoE+(Port1-8),total PoE+ power budget control,max. 30.8W per port(240 W total)
dedicated port for connection to the manager	1 x RJ45 (used)	-	-	1 x RJ45
dedicated port for connection to another switch	1 x RJ45	-	-	1 x RJ45



DIVUS HEARTBEAT

DHB-MANAGER AND DHB-MANAGER-SLIM MAIN FUNCTIONS

	DHB-BUNDLE	DHB-MANAGER	DHB-MANAGER-SLIM	DHB-SWITCH
FUNCTIONALITIES				
VoiP server	~	~	~	×
VoiP call logging	~	~	~	×
Managing of multiple switches	~	~	~	×
Firewall protection of Home LAN and DIVUS SECURE NET	~	~	~	×
Firewal protection of external residential network to Home LAN and DIVUS SECURE NET	~	~	~	×
Network scan	~	~	~	×
Generate network report	~	~	~	×
Sending network report by email	~	~	~	×
Network diagram	~	~	~	×
Network logging	~	~	~	×
Network diagnostic	~	~	~	×
_oop protection	~	~	~	×
DIVUS device control	~	~	~	×
DIVUS device manage	~	~	~	×
DIVUS device configuration	~	~	~	×
DIVUS device logging	~	~	~	×
DHCP server to DIVUS SECURE NTRANET	~	~	~	×
NTP server to DIVUS SECURE IN- TRANET	~	~	~	×

* warranty ex works, normally 24 months, fixed at order. All data refer on print date, errors and changes excepted. NOTE: Internal connections are intended as inside the box unit, normally on pin header, external ones as outside the box. Nevertheless, once mounted in the wall, only connections described as "front accessible" will be reachable for the

customer.



DIVUS HEARTBEAT

DHB-SWITCH MAIN FUNCTIONS

DHB-BUNDLE OR DHB-SWITCH USED WITH DHB-MANAGER OR DHB-MANAGER SLIM

HARDWARE SPECIFICATION			
Copper ports	10x10/100/1000BASE-T RJ45 Auto-MDI/MDI-X ports		
Switch architecture	Store-and-forward		
Address table	8K entries, automatic source address learning and aging		
Flow control	IEEE 802.3x pause frame for full-duplex. Back pressure for half-duplex		
Reset button	< 5 sec: system reboot, > 5 sec: factory default		
Switch fabric	24Gbps / non-blocking		
LED	System: Fan Alert (Green), SYS (Green), PWR (Green)		
	10/100/1000T RJ45 Interfaces (Port 1 to Port 8): 10/100/1000Mbps LNK/ACT (Green), PoE-in-Use (Orange)		
	10/100/1000T RJ45 Interfaces (Port 9 to Port 10): LNK/ACT (Green), 1000Mbps (Orange)		
	100/1000Mbps SFP Combo Interfaces (Port 11 to Port 12): LNK/ACT (Green), 1000Mbps (Orange)		
POWER OVER ETHERNET			
PoE Standard	IEEE 802.3af/802.3at PoE/PSE, End-span, Power Pin Assignment 1/2(+), 3/6(-)		
PoE Power Output	Per port 54V DC, max. 30.8 watts		
PoE Power Budget	240 watts (max.) @ 25° C, 200 watts (max.) @ 50° C		
PoE Ability	PD @ 7 watts: 8 units, PD @ 15.4 watts: 8 units, PD @ 30.8 watts: 8 units		
PoE Management	Auto detects powered device (PD), circuit protection prevents power interference between ports, remote power feeding up to 100 meters, total PoE power budget control , per port PoE function enable/disable, PoE Port Power feeding priority, per PoE port power limitation, PD classification detection, PD alive check, PoE schedule, PD power recycling schedule		
LAYER2 MANAGEMENT FUN	ICTIONS		
Basic Management Interfaces	Console, Telnet, Web browser, SNMP v1, v2c		
Secure Management Interfaces	SSH, SSL, SNMP v3		
Port Configuration	Port disable/enable, auto-negotiation 10/100/1000Mbps full and half duplex mode selection, flow Control disable enable		
Port Status	Display each port's speed duplex mode, link status, flow control status, auto negotiation status, trunk status		
Port Mirroring	TX/RX/Roth_many-to-1_monitor		

Port Mirroring	TX/RX/Both, many-to-1 monitor		
VLAN	802.1Q tagged based VLAN, up to 255 VLAN groups, Q-in-Q tunneling, private VLAN Edge (PVE), MAC-based VLAI Protocol-based VLAN,voice VLAN, MVR (Multicast VLAN Registration),up to 255 VLAN groups, out of 4094 VLAN IE		
Link Aggregation	IEEE 802.3ad LACP/Static Trunk, Supports 6 trunk groups with 8 ports per trunk		
QoS	Traffic classification based, strict priority and WRR, 8-level priority for switching		
IGMP Snooping	IGMP (v1/v2/v3) Snooping, up to 255 multicast groups, IGMP Querier mode support		
MLD Snooping	MLD (v1/v2) Snooping, up to 255 multicast groups, MLD Querier mode support		
Access Control List	IP-based ACL/MAC-based ACL, Up to 256 entries		
Bandwidth Control	Per port bandwidth control, Ingress: 100Kbps~1000Mbps, Egress: 100Kbps~1000Mbps		
SNMP MIBs	RFC 1213 MIB-II, RFC 2863 IF-MIB, RFC 1493 Bridge MIB, RFC 1643 Ethernet MIB, RFC 2863 Interface MIB, RFC 2665 Ether-Like MIB. RFC 2737 Entity MIB, RFC 2819 RMON MIB (Groups 1, 2, 3 and 9), RFC 2618 RADIUS Client MIB, RFC 3411 SNMP-Frameworks-MIB, IEEE 802.1X PAE, LLDP, MAU-MIB, Power over Ethernet MIB		
LAYER3 FUNCTIONS			
IP Interfaces	Max. 8 VLAN interfaces		
Routing Table	Max. 32 routing entries		
Routing Protocols	IPv4 software static routing, IPv6 software static routing		

