Technical Specifications – BifrostConnect Solution

Applicable to Hardware Unit revision 1.0 and 1.5

These technical specifications were updated on 1st July 2023 (version 2.3)

The BifrostConnect Solution consists of the following components:

1. The **Hardware Unit** which is a compact remote-control unit.

2. The **Services:**

   a. **Core Services** which provide session authentication, session bridge, web based session interface.
   b. **Optional Services** including identity and access management, audit logging and API integrations.

Input/Output

USB-C
Video input, keyboard/mouse output and recharging

Micro-USB
Recharging, keyboard/mouse, RS232 emulation, and USB Tunnel sessions

Ethernet RJ45
Network, PoE 48V charging, and IP Tunnel sessions

RS232
Serial Terminal and Serial Tunnel sessions

SPDT
- Rated load 0.3 A at 125 VAC, 1 A at 30 VDC
- Rated carry current 2 A
- Max. switching voltage 125 VAC, 60 VDC
- Max. switching current 1 A

Bluetooth 4.0
Keyboard/mouse input

HDMI
Video input (480p, 720p, 1080p)

SIM tray
Nano-SIM

Performance

Battery type
Industrial RRC1120 - 1S1P (UL2054 certified)

Battery power
3.70V / 2000mAh / 7.4Wh

Power consumption
9-watt Max

Battery usage
~2 hours

Auto power-on
Activated on AC/DC input
(This feature is only supported by Hardware Unit 1.5)

Operating temperature
–41 to 104 °F (5 to 40 °C)

Humidity
Maximum 85% non-condensing relative humidity

Connectivity

LAN
10/100 Mbit Ethernet LAN Full Duplex

Wi-Fi
802.11n 2.4 GHz WPA/WPA2 PSK/AES

Cellular
4G modem with CAT-4 speeds up to 150Mbit download and 50Mbit upload

Hardware Unit revision 1.0 supports cellular-based networks with 4G LTE networks (2600 MHz, 2100 MHz, 1800 MHz, 900 MHz, and 800 MHz). Applicable but not limited to Europe (CE marking).

Hardware Unit revision 1.5 supports cellular-based networks with 4G LTE networks B1 (FDD 2100), B2 (FDD 1900), B3 (FDD 1800), B4 (FDD 1700 / AWS), B5 (FDD 850), B7 (FDD 2600), B8 (FDD 900), B12 (FDD 700ac), B13 (FDD 700c), B14 (FDD 700PS), B19 (FDD 800), B20 (FDD 800DD), B26 (FDD 850), B28 (FDD 700). Applicable but not limited to North America (FCC marking).

Software

Firmware
Industrial embedded Linux
(upgradable via OTA)
- Attended Access
- Unattended Access

Data channel
Encrypted WebRTC

Core Services
- Session authentication
- Session interface
- Bridge (KVM Access, IP Tunnel, Serial Tunnel, USB Tunnel, SSH, Serial Terminal, Offline File Transfer)

Optional Services
Including identity and access management, audit logging and API integrations

Physical

Dimensions
L-124mm W-87mm H-27mm

LCD Display
2" TFT

Weight
250 g

Classification Rating
IP20

124 mm

87 mm

27 mm