

BVV-105: E-mail-SMS-Gateway

BVV-105 Is a small, DIN-rail mountable device, which works as a local SMTP-server i.e. e-mail server. This means, that it can receive e-mail messages locally, and relay them as text messages (SMS) through serially connected GSM-modem.



In typical usage, BVV-105 receives email message (usually alarm message) from building automation controller , converts message to SMS message, and sends it to receiver.

Receiver messages can also be relayed to smtp-server, to be delivered as emails.

Configuration and commissioning is performed through web-based user interface.

NOTE! For sending SMS messages to GSM network, BVV-105 needs working GMS-modem like **Cinterion BGS2T** attached to it.



Modem status LED (2G-modem: BGS2T)

The orange status LED of BGS2T can help with troubleshooting: Usually the SIM card (or cellular service subscription) is at fault if the LED is blinking in the Limited Network Service mode (600 ms on/600 ms off). In this case a more specific error code can be read from the SMS Daemon log (a reboot of BVV-105 may be required to show the log at the beginning).

Normally the LED should blink in the IDLE mode (75 ms on/3 s off).

Table 13: Coding of the orange status LED

LED mode	Operating status of BGS2T
Permanently off	BGS2T is in POWER DOWN mode
600 ms on / 600 ms off	Limited Network Service: No SIM card inserted or no PIN entered, or network search in progress, or ongoing user authentication, or network login in progress.
75 ms on / 3 s off	IDLE mode: The mobile is logged to the network (monitoring control channels and user interactions). No call in progress.
75 ms on / 75 ms off / 75 ms on / 3 s off	One or more GPRS contexts activated.
500 ms on / 25 ms off	Packet switched data transfer in progress.
Permanently on	Connected to remote party or exchange of parameters while setting up or disconnecting a call.

Modem status LED (4G-modem: EGX81-W)

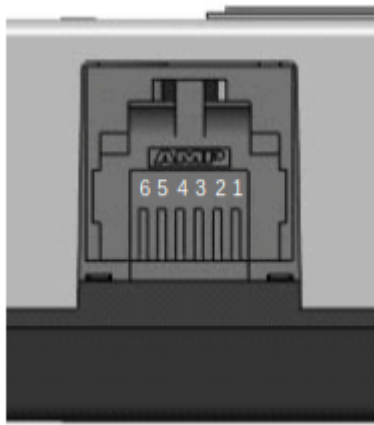
Table 13: Coding of the orange status LED

LED mode	Operating status of EGX81-W
Permanently off	EGX81-W is in POWER DOWN mode
500 ms on / 500 ms off	Limited Network Service: No SIM card inserted or no PIN entered, or network search in progress, or ongoing user authentication, or network login in progress.
Permanently on	UE registered to a network. No call, no data transfer or GSM PS /LTE data transfer

Cinterion BGS2T

[cinterion-bgs2t-man_1-0-0_en.pdf](#)

Virtaliittimen Pin out



Pin assignmment and typical connection:

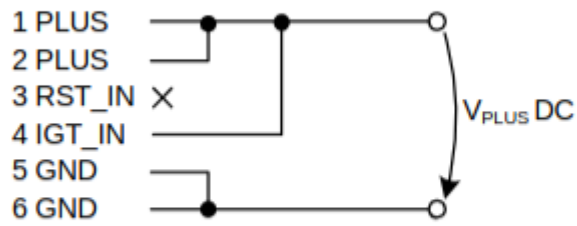


Figure 5: 6-pole Western jack for power supply, ignition, reset, typical connection

Johtimien värit pig-tail tyyppisessä virtakaapelissa

Johdinväri	Selite
Punainen ■ , Valkoinen ■	+8-30V
Musta ■ , Violetti ■	Ei kytketä
Keltainen ■ , Ruskea ■	Gnd (0V, miinus)

Downloads:

[BVV-105 commissioning 2023-02-15.pdf](#)

[BVV-105-datasheet.pdf](#)

[BVV-päivitysohje.pdf](#)

[bvv-105-pikaohje.pdf](#)

[BVV105-ip-palautus-ohje-2019-11-22.pdf](#)

Technical data

Electrical	
Supply voltage	5 V DC
Supply current	< 500 mA
Connectors	
Ethernet	1 x 10/100 Mbps
USB	1
MicroSD	1 (max. 32GB card)
Integration	
SMTP server	
Modbus TCP/RTU	
Bacnet/IP	
Mounting	
IP rating	IP20
Enclosure material	PC / ABS plastic
Op. temperature	-40 .. 85 °C (< 95% RH)
Dimesions	72 x 91 x 63mm (W x H x D)
Weight	130 g

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