

Add-ons for S5 and S6 Feature Connector „FC Comm“



Subject to alterations



Pictures may differ from original product.

Feature Connector add-ons

To adjust and enhance the programmable devices S5 CommPro and S6 TrackPro it is possible to implement expansion modules at an internal interface. These interfaces are called Feature Connector (FC). The add-ons enter the prefix FC accordingly.

Every FC board has an own protocol processor where the specific firmware for the add-on and the firmware for the proprietary STS protocol is implemented. At this processor complete protocol stacks are implementable.

The specifics of interfaces which are encapsulated in API plug ins are available for programmer. This board firmware has to maintain via GSM interface like the firmware at the mainboard. The FC boards are made stackable, so that several add-ons can be assembled at a S5 or S6 board. To use these boards normally a housing adaption for realisation of external connection of the add-ons has to be implemented. If required customer specific add-ons can be developed.

Feature Connector „FC Comm“

The communication add-on FC Comm supports a wide variety of common interfaces. The add-on processor is designed for the implementation of complex protocols. So the connection setup and control of wireless connections can be managed on the board and do not load the JAVA application. The nature and the number of interfaces will be is determined by the assembling of the add-on. The different communication channels can be assigned three physical interfaces (X1 RJ45, K1 and K2 3 pole) in the production.

WLAN	2.4GHz IEEE 802.11b/g High throughputs, 1Mbps sustained data rate with TCP/IP and WPA2 On board ceramic chip antenna und SMA connection for external antenna On board ECOS -OS, TCP/IP stacks Secure WiFi authentication WEP-128, WPA-PSK(TKIP), WPA2-PSK (AES) Built in networking applications DHCP, UDP, DNS, ARP, ICMP, TCP, sockets 802.11 power save and roaming functions Wi-F alliance certified for WPA2-PSK FCC / CE/ ICS certified and RoHS compliant
Bluetooth	Fully qualified Bluetooth v2.1 + EDR end product TX power: 18 dBm RX sensitivity: -90 dBm On board ceramic chip antenna and SMA connection for external antenna Class 1, range of up to 800 meter class 2
LAN	10BaseT/100BaseTX Ethernet Supports automatically transmission (full- and half duplex, 10a and 100-based) Supports Auto MDI/MDIX 10/100 MBit Supports fixed programmed TCP/IP protocols: TCP, UDP, ICMP, IPv4 ARP, IGMP, PPPoE, Ethernet
RS232	7/8 bit character size 300 to 115200 baud 1 or 2 stop bit(s) MSB / LSB first end_of_msg character selectable Timeout "end_of_msg" character up to 2000 ms

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RS485	<p>7/8 bit character size MSB / LSB first 300 to max. 16Mbps baud 1 or 2 stop bit(s) Half- or full duplex Integrated terminator (can be switched off) end_of_msg character selectable Timeout for „end_of_msg“ character up to 2000 ms</p>
CAN	<p>CAN V2.0B at 1 Mbit/s 0 – 8 byte length in the data field Standard- and extended data- and remote frames Six 29-bit-Filter Two 29-bit-Masken Data byte filtering at the first two data bytes Integrated terminator (can be switched off)</p>
LIN	<p>LIN 2.0/SAE J2602 compatible Master (default) Slew rate limited transmitter for low electromagnetic emission (EME) max. 20 kbaud robust electromagnetic interference immunity (Electromagnetic Immunity (EMI)) Passive behaviour in unpowered state TXD dominant timeout function LIN Bus dominant management</p>
KLine	<p>In accordance with ISO9141 1200Baud, 2 Stopbits 9600, 10400, 19200, 28800 Baud, 1Stopbit Current limiter at 60 mA -24V..+36V Stimulation „Fast“ / 5 Baud</p>
1-Wire	<p>1-Wire Master IO with selectable active or passive 1-Wire pull up Provides Reset/Presence, 8-Bit, Single-Bit and 3-Bit 1-Wire IO sequences Standard and overdrive 1-Wire communication speeds Slew controlled 1-Wire edges</p>
I ² C	<p>Up to 4nF line capacity allows unshielded standard cable up to 40 m 400 kHz operation over standard cable up to 20 m 60 mA bus driver Supply of bus nodes up to maximal 100mA, 5..15V VDC</p>

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Assignment of the physical interfaces:

Wireless interfaces	WLAN Bluetooth
X1-Frontschnittstelle	RS232 RS485 (half and full duplex) CAN LAN (fixed wiring) I ² C 1-Wire
K1 interface	RS232 LIN 2. KLine (fixed wiring) CAN I ² C 1-Wire
K2 interface	RS485 (half duplex) 1. KLine (fixed wiring) CAN

Notes

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