

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

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 FDR“

The add-on interface serves the recording of analogue and digital input signals. The board has additional a 3-axis acceleration sensor. The protocol processor of the add-on allows a high sampling rate and a pre-processing of the collected data.

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|-------------------------------|---|
| 8 analogue inputs | 0..25V, 1:10 prescaler, 12 Bit resolution, 0,61035 mV/LSB Input resistance about 100kOhm Continuous scanning Reference potential supply voltage mass Integrated ESD protection |
| 4 digital and counting inputs | Input voltage range: 0...25V High level: 5...25V Current consumption per channel max. 10mA Frequency range: 0...10kHz (with 5V-Pegel) 0...20kHz (from 6V-Pegel) |
| | Four operation modes, independent from each other for every channel configurable: 0: digital input 1: free running counter: counts impulses at input (high flank), 16Bit counting range 2: counter with gate time, „single shot“: counter value will be saved after the expiration of the gate time and the counter will be deleted; start of the next counting cycle after readout of memory. 3: counter with gate time, „continuously“: counter value will be saved after every expiration of the gate time; the saved value will be overwritten after every counting cycle Gate time: 1..65535 ms |
| Acceleration sensor | 3-axis acceleration sensor Measurement range $\pm 6g$ Sample rate 160Hz Resolution 12Bit |
| RS232 | 7/8 Data bit 300 to 115200 Baud 1 or 2 Stop-bit(s) Hardware handshake RTS/CTS, Xon Xof |

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Notes

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