| **Property** | **SICO3 FD** | **SICO3M FD** | **SICO2B** |
|---|---|---|---|
| Technology (build year) | 2016 | 2016 | 1998 |
| CPU (Number of) | 1 | 1 | 1 |
| Instruction speed | 120 MHz | 120 MHz | 9.216 MHz |
| Word size [bit] | 32 | 32 | 16 |
| FPU (32 bit) | ✔ | ✔ | - |
| Voltage input signals | 8 | 8 | 8 |
| Bit resolution | 12 | 12 | 10 |
| Multiplex signals | ✔ | - | ✔ |
| Averaging of multiplexed signals | ✔ | - | ✔ |
| Digital input signals | 3 | 3 | 3 |
| Supported signal types | Frequency signal, switch state, pulse width, counter | Frequency signal, switch state, pulse width, counter | Frequency signal, switch state, pulse width, counter, quadrature signal |
| Supported timer base frequencies [Hz] | 120,000,000 / 60,000,000 / 30,000,000 / 15,000,000 / 7,500,000 / 3,750,000 / 1,875,000 / 468,750 / 117,187.5 | 120,000,000 / 60,000,000 / 30,000,000 / 15,000,000 / 7,500,000 / 3,750,000 / 1,875,000 / 468,750 / 117,187.5 | 9,216,000 / 1,152,000 / 288,000 / 36,000 |
| Digital output signals | 3 (as long as the digital channel is not used as input) | 3 (as long as the digital channel is not used as input) | 3 (as long as the digital channel is not used as input) |
| Supported signal types | Frequency signal, switch state, PWM | Frequency signal, switch state, PWM | Frequency signal |
| Input for a GPS receiver | ✔ | ✔ | ✔ |
| 32-bit Longitude / Latitude | ✔ | ✔ | - |
| Signal *Track* | ✔ | ✔ | - |
| Derived signals such as *acceleration* | ✔ | ✔ | - |
| CAN | 2 | 2 | 1 |
| Maximal number of messages | 32 per CAN module | 32 per CAN module | 16 |
| Maximal signal width [bit] | 32 | 32 | 16 |

| **Property** | **SICO3 FD** | **SICO3M FD** | **SICO2B** |
|---|---|---|---|
| CAN listening mode | ✔ | ✔ | - |
| CAN scan mode | ✔ | ✔ | - |
| CAN FD | 2 (with option FD) | 2 (with option FD) | - |
| Maximal number of messages | Up to 31 per CAN module | Up to 31 per CAN module | - |
| Maximal signal width [bit] | 32 | 32 | - |
| LIN support | ✔ (optional) | ✔ (optional) | ✔ (optional) |
| Calculated Signals (data type) | signed 32-bit integer | signed 32-bit integer | unsigned 16-bit integer |
| Voltage output signals | 4 | 4 ($T_{update} \geq 0.3$ ms) | 4 |
| Bit resolution | 12 | 12 | 12 |
| LIO connector | ✔ | ✔ | ✔ |
| External display connector | ✔ | - (only via serial port) | ✔ |
| Display pages | 2 | 2 (only via serial port) | 1 |
| Configurations, Number of | Up to 200 (limited by 63 KiB in total) | 1 | 1 (optional: 3 or 8) |
| Serial port (to the PC) | ✔ | ✔ | ✔ |
| Fast block oriented protocol | ✔ | ✔ | - |
| F6 protocol | ✔ | ✔ | ✔ |
| TEMES online signals/chart | ✔ | ✔ | ✔ |
| TEMES online calibration | ✔ | ✔ | ✔ |
| Firmware user-upgradeable | ✔ | ✔ | - |
| Device calibration user-updatable | ✔ | ✔ | - |
| Rudimentary support for OBD via CAN | ✔ | ✔ | ✔ |

| **Property** | **SICO3** FD | **SICO3M** FD | **SICO2B** |
|---|---|---|---|
| OBD via CAN auto-detection | ✔ | ✔ | - |
| OBD via CAN GUI | ✔ | ✔ | - |
| Filter (moving average, delay, biquad, timeout) | ✔ | ✔ | - |
| Real time clock | ✔ | ✔ | - |
| Box dimensions | 115 mm x 70 mm x 30 mm | 80 mm x 60 mm x 26 mm<br>(FD: 84 mm x 60 mm x 26 mm) | 115 mm x 70 mm x 30 mm |
| Box weight | 0.271 kg | 0.15 kg (FD: 0.16 kg) | 0.257 kg |
| Splash water protection | optional | - | - |
| Power supply | 8 … 30 V DC | 8 … 16 V DC | 6.5 … 18 V DC |
| Power consumption (@ 12 V and with unlighted display) | about 83 mA | about 60 mA + 10 mA per used CAN FD channel | about 103 mA |
| Quiescent current (= Power Off; @ 12 V) | about 150 µA | about 150 µA | 0 A |