### Features

- Unlimited number of channels by combining 36 channel modules
- Dynamic range
   137 dB, 150 dB\*
- Individual △-∑ ADC per channel 24-bit, 32-bit\*
- Adjustable sampling rates up to 2000 sps, 5000 sps\*
- True simultaneous sampling with shared clock for up to 36 channels
- Internal Fast SSD hard drive up to 1TB with SATA interface and high storage capacity. Mirroring function on SD card\* or USB drive\*
- Built-in display for easy inspection of status and parameters
- □ Support for interconnection of multiple devices
- Support for DVI output for direct graphical visualization of data and configuration\*
- USB interface for external, removable storage media and communication devices

- □ Continuous and trigger-based recording
- Simultaneous data streaming to several clients
- Wired Ethernet; enhanced connectivity via external landline modems\*, 3G cellular devices\*, satellite links\* and serial links\*
- □ TCXO time base with GNSS (GPS, GLONASS, BEIDOU) or NTP synchronisation
- Configuration and status monitoring via Web Interface compatible with Smartphones/Tablets
- □ Simple and secure communication over internet or intranet with full remote management
- **3** option slots for adding peripherals
- Alarm output\* with up to 8 independent relays flexibly configurable for different types of events (through 2x4 alarm option boards)
- Power redundancy through dedicated battery input (internal battery charger included)
- Extremely compact and modular with higher channel density than ever



## **Applications**

- Structural Health and Response Monitoring
- Earthquake and Seismic Monitoring
- Ambient Vibration Testing

- Induced Vibration Monitoring and Notification
- Building Code-Compliant Instrumentation
- Seismic Alarm and Safe Shutdown





memory to allow automatic recovery.         DC Power:         9 - 38 VDC           Sensors         9 - 38 VDC           The fora offers the most flexible sensor connectivity options to cater for the needs of any measuring requirement. Any type of sonsor compiling with the fora signal input specifications can be connected on the conveniently variables serve terminals.         Consumption:         Space 200 VAC / 50 VLz.           Consumption:         Base SIM modules:         - fora-SVC         Space 200 VAC / 50 VLz.           Consumption:         - fora-SVC         A conversion of the connected sensors connected with automalic restart after power is restored.           Consumption:         - fora-SVC         Space 200 VAC / 50 VLz.           Consumption:         - fora-SVC         A conversion of the connected on the condition with automalic restart after power is restored.           Channels:         - fora-SVCP point signal processing SIM - fora-SVCP point signal resupported.         Space 200 VCC / 50 VCC (species) Munited at the forn for the fora rack up to 12 SUM per on cancer 24 Bit (rest 201 M - 2 Der channel with analog and dight FIR anti-silesting filters 177 dB gS ds gas 177	System parameters of the fora are stored in the non-volatile system		Power	
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conveniently adable server terminals.       Solar Panels:       Available on request.         conveniently adable server terminals.       Solar Panels:       Available on request.         Configuration:       Base SIM modules:       - fora-SBC data handling SIM         - fora-SBC data handling SIM       - fora-OVP care voltage protection SIM         - fora-OVP care voltage protection SIM       - fora-OVP care voltage protection SIM         - fora-OVP care voltage protection SIM       - fora-OVP care voltage protection SIM         - fora-OVPS system power mgmt SIM       - fora-OVPS system power mgmt SIM         - fora-OVPS system power mgmt SIM       - fora-OVPS system power mgmt SIM         Configuration:       fora-OVPS second signal are supported.         Digitiser SIM       Configuration:         Configuration:       fora-OVPS spectrate factor of the fora rack up to 12 second system power mgmt SIM         Dynamic range:       146 dB (per bin @ 11 kr znt. full scale rms)'         156 dB @ 40 spst       - fora-OVPS         Sampling Retarc SIM       - continuous and/or event hased         Input Signal:       2 vorce of the protection in case of low battery condition with automatic restarce stare definition with automatic restare definition of the protection in case of low battery condition with automatic restare stare definition of the fora rack up to 10 to +50 °C         Channels:       3 channels per SIM	the needs of any measuring requirement. Any type of sensor complying		Consumption:	
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Configuration:       Base SM modules: - fora-DVP cvr voltage protection SM - fora-DVE system function SM - fora-DVP Signal signal processing SM - fora-ADC analog-to-digital SM - fora-ADC analog to digital processing SM - fora-ADC analog to digital processing SM - fora-ADC analog to digital PM - fora-ADC analog to digital PM - fora-ADC analog to digital PM - fora-DSP + fora-ADC Channels:       Intelligent Adaptive Real Time Clock (MAPT or SNS Sti. TCXO accuracy:         Donverter:       24 bit (or 32 bit) A: 3 por channel with analog and digital PM anti-dialising fitters - 150 db (g 40 gsp Bandwith:       Intelligent Adaptive Real Time Clock (MAPT or SNS Sti. TCXO accuracy:         Dynamic range:       146 db (gr bin @ 11 kr ent, full scale mms)* - 150 db (g 40 gsp Bandwith:       The fora rock with stalog and digital PM anti-dialising fitters. - Mounced at the back of the fora rack with 12 SMb ger one rack - 20 OVPS       External CPA/P         Channels:       Continuous and/or event based       There inturace analable for easy configuration with any web broaser. Alloraditively the configuration file in XML format can be configuration file in XML format can be enterned Ser SMM         Continuous and/or event based       Continuous and/or event based       A or 8 independent relay contacts for trigger alam and/or error (NO and NC contacts         Data Recording Type:       Configuration ky pipcial 0 - 20 mA current loop bandpass       Level or STALTA trigger Trigger litering:       A or 8 independent relay cont	fora rack		External battery.	
- fora-SBC data handling SIM     protection SIM       - fora-OVPC serv orlage protection SIM     - fora-OVPC serv orlage protection SIM       - fora-OVPC serv orlage protection SIM     - fora-OVPC serv orlage protection SIM       - fora-OVPC sensor interface SIM     - fora-OVPC sensor interface SIM       Digitiser SIM     - fora-OVPS       Channels:     up to 36 channels       Digitiser SIM     - fora-OVPS per orlage protection SIM       Configuration:     fora-DSP + fora-ADC       Mounted at the fort of the fora rack     Up to 12 SIMs per one rack       Channels:     3 channels per SIM       AD Converter:     24 Bit (or 32 bit) a-25 per channel       With analog and digital FIR anti-aliasing fitters     Std. TCXO accuracy after learn:       156 d8 (per bin g) 1Hz rel. full scale rms)'     156 d8 (per bin g) 1Hz rel. full scale rms)'       156 d8 (per bin g) 1Hz rel. full scale rms)'     External GPRS modern'       Configuration:     fora-OVPS       Configuration:     fora-OVPS       Sampling Rate:     Up to 2000 (or 5000) sps       Bandwidth:     DC to 100 VDC differential       2.5 VDC 2.5 VDC 2.5 VDC 2.5 VDC 2.5 VDC 2.5 VDC 3.5 VDC single ended     - 20 rmA current loop       3 channels as DC Porwer     Samanel sper SIM       Triggering     Level or STALTA trigger       Triggering     Level or STALTA trigger       Trigger	Configuration:	Base SiM modules:		
Safi-Test         Safi-Test         Channel SIM modules:         - fora-DVP Sessens interface SIM         - fora-ADC analog-to-digital SIM         - fora-ADC         - fora-ADC         Configuration:         fora-DS P - fora-ADC         Mounted at the front of the fora rack         up to 12 SIMs per one rack         3 channels per SIM         Donvert         24 Bit (ror 2bit A - 3 par channel         AD Convert         137 dB (g 50 ape         157 dB (g 50 ape         157 dB (g 50 ape         156 dB (greb ing (1 Hz rel. full scale ms)*         150 dB (greb ing (1 Hz rel. full scale ms)*         150 dB (greb ing (1 Hz rel. full scale ms)*         150 dB (greb ing (1 Hz rel. full scale ms)*         150 dB (greb ing (1 Hz rel. full scale ms)*         150 dB (greb ing (1 Hz rel. full scale ms)*         150 dB (greb ing (1 Hz rel. full scale ms)*         150 dB (greb ing (1 Hz rel. full s		<ul> <li>fora-SBC data handling SiM</li> </ul>		
<ul> <li>- Iora-PUWER System power mymr SMM Channel SM modules: - fora-DSP Digital signal processing SM - fora-OVFS sensor interface SM - fora-OVFS sensor interface SM - fora-OVFS sensor interface SM - fora-OVFS</li> <li>Configuration:</li> <li>Mon-DS - fora-ADC Mounted at the fornt of the fora rack up to 12 SMs per one rack</li> <li>AD Converter:</li> <li>24 BI (or 32 bit) A.: 2 per channel with analog and digital FR anti-aliasing filters - 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. full scale rms)<sup>+</sup> 150 dB (per bin @ 1 Hz rel. f</li></ul>		<ul> <li>fora-OVP over voltage protection SiM</li> </ul>	Calf Taat	
Channels-fora-ADC analog-to-digital SiM -fora-ADC analog-to-digital SiM <b< td=""><td></td><td><ul> <li>fora-POWER system power mgmt SiM</li> </ul></td><td></td><td>al appear test and pariadical state of basilth</td></b<>		<ul> <li>fora-POWER system power mgmt SiM</li> </ul>		al appear test and pariadical state of basilth
<ul> <li>- fora-DSP Digital signal processing SM - fora-OVFS sensor interface SM - fora-DSP + fora-ADC - Mounted at the forn of the fora rack up to 12 SMs per one rack</li> <li>Channels: 3 channels per SIM - Z PEr channel with analog and digital FR anti-aliasing filters in SM - fora-OVFS - for allog - 50 pm (75 slycar) @ -10 to +50 °C + Higher accuracy available on request - 24 Bit (or 32 bit) A-Z per channel with analog and digital FR anti-aliasing filters - 156 dB (per bin @ 1 Hz rel. full scale rms) - 156 dB (per bin @ 1</li></ul>		Channel SiM modules:		
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Channels:       Up to 3b channels       Internal:       Interna		<ul> <li>fora-OVPS sensor interface SiM</li> </ul>	• • • •	
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Channels:       3 channels per SIM       Higher accuracy available on request         A/D Converter:       24 Bit (or 32 bit) Δ- Σ per channel with analog and digital FIR anti-aliasing filters bynamic range:       Higher accuracy available on request         Dynamic range:       146 dB (per bin @ 1 Hz rel. full scale rms)' 150 dB @ 40 sps*       Accuracy after learn:       < ± 0.5 ppm (15 siyear or 2 ms/h) access to NTP servers         Sampling Rate:       Up to 2000 (or 5000) sps       Ethernet TCP/IP       Internal landline modem*         Sensor Interface SIM       fora-OVPS       External Stabilite modem*         Configuration:       fora-OVPS       External Stabilite modem*         Mounted at the back of the fora rack up to 12 SiMs per one rack       External Stabilite modem*         Channels:       3 channels per SiM       External Stabilite modem*         Input Signal:       20 VDC or 10 VDC differential p.pt Signal:       Continuous and/or event based       An intuitive web interface         Type:       Continuous and/or event based       Aiarm (SIM*)       Aiarm (SIM*)         Type:       Level or STA/LTA trigger       4 or 8 independent relay contacts for trigger align and/or error (NO and NC contacts available)         Prost-event-Time:       1 to 720 seconds, typical       Relay Hold-On:       1 to 60 second (User programmable)         Trigger filtering:       User onfigurable lowpass, highpass or bandpass </td <td></td> <td></td> <td>Std. TCXO accuracy:</td> <td></td>			Std. TCXO accuracy:	
A/D Converter:       24 Bit (or 32 bit) A-∑ per channel with analog and digital FIR anti-aliasing filters 146 dB (per bin @ 1 Hz rel. full scale rms)* 137 dB @ 50 sps 156 dB (per bin @ 1 Hz rel. full scale rms)* 150 dB @ 40 sps*       Accuracy after learn: 4 curacy after learn after learner learn and/or error (NO and NC 5 curacy at after learn learner learner learnerer learnererer learne and/or error (NO and NC 5 curacy at learn l	Channele			
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137 dB @ 50 spš 156 dB (pr bin @ 1 Hz rel. full scale rms)* 150 dB @ 40 sps*Communication ChannelSampling Rate: Bandwidht: DC to 1000 Hz standard / Others*.Communication Channel External GSM modem* External GSM modem* External GSM modem* External GPRS modem* External GPRS modem* External UMTS/3G modem*Configuration: Input Signal: 2.0 VDC or 10 VDC differential 2.5 VDC ± 2.5 VDC single ended 0 - 20 mA current loop Same as DC Power 15 or 24 VDC (specify at order)User Interface Internal load load by replacing the instrument console, exchanged by replacing the protex of though SSL Although the configuration file an be manually edited at any time, a tool is provided to edit it securely.Data Recording Type Level or STA/LTA trigger Type Level or STA/LTA trigger Type Tigger filtering: User configurable lowpass, highpass or bandpassAlarm (SiM*)Data Stream Protocol: Storage Memory Size and Type:GSBU, SeedLink (canthworm compatible)Relay Hold-On: to 10 SD hard drive Higher capacity available on request Removable SD card or USB storage on request FAT32 or EXT4 formatted.Max voltage: to 20 °C to +70 °C Storage temperature: -40 °C to to 55 °C turindity: No to 10 % to 10 % (non-condensing) % to 10 % (non-cond	Dynamic range:		Accuracy with NTP:	
156 dB (per bin @ 1 Hz rel. full scale rms)* 150 dB @ 40 sps*Communication Channel Ethernet TCP/IP Internal landline modem*Sampling Rate: Bandwidth:Up to 2000 (or 5000) sps DC to 1000 Hz standard / Others*.External GSM modem*Sensor Interface SIM Configuration:fora-OVPS fora-OVPSExternal GPRS modem*Confauration: (Lapped at the back of the fora rack up to 12 SiMs per one rack 2 of VDC or 10 VDC differential 2.5 VDC ± 2.5 VDC ± 2.5 VDC single ended 0 - 20 mA current loopUser InterfaceSensor Power: Sensor Power:same as DC Power 15 or 24* VDC (specify at order)User InterfaceData Recording Type:Continuous and/or event basedAtarm (SiM*) Alarms:4 or 8 independent relay contacts for trigger alarm and/or error (NO and NC contacts available)Pre-event-Time: Trigger filtering: VpcLevel or STALTA trigger (Earthworm compatible)Relay Hold-On: Contacts: Suitable for a low voltage control. In case large loads must be switched, then external feels built in SSD hard drive Higher capacity available on request FAT32 or EXT4 formatted.Max voltage: Protection:125 V / 250 mAStorage Memory Size and Type:Internal 64 GB built in SSD hard drive Higher capacity available on request FAT32 or EXT4 formatted.Max voltage: Protection:10 % to 10% (non-condensing) Hausings with variable protection available	Dynamic range.			
Sampling Rate: Bandwidht:150 dB @ 40 sps* Up to 2000 (or 5000) sps Dc to 1000 Hz standard / Others*.Leftneret ICD/IP Internal landline modem* External GSM modem*Sensor Interface SiM Configuration:Confouration (or 5000) sps fora-OVPS Mounted at the back of the fora rack up to 12 SiMs per one rackUser Interface is available for easy configuration with any web browser. Alternatively the configuration file in XML format can be edited on site through the instrument console, exchanged by replacing the memory card, remotely from a server or through SSH. Although the o 20 mA current loop Sensor Power:User InterfaceSavailable for easy configuration with any web browser. Alternatively the configuration file in XML format can be edited on site through the instrument console, exchanged by replacing the memory card, remotely from a server or through SSH. Although the configuration file can be manually edited at any time, a tool is provided to edit it securely.Data Recording TriggeringLevel or STA/LTA trigger 1 to 720 seconds, typicalAlarm (SiM*)Trigger filtering:Level or STA/LTA trigger (Earthworm compatible)Alarm (SiM*)Data Stream Proteoci:GSBU, SeedLink (Earthworm compatible)Relay Hold-On: to 70 °C1 to 720 seconds, typicalSize and Type:Internal 64 GB built in SSD hard drive Higher capacity available on request FAT32 or EXT4 formatted.Alart (Sim?)Size and Type:Internal 64 GB built in SSD hard drive FAT32 or EXT4 formatted.Ack Dimensions: Protection:90 * to 10 % (non-condensing) Protection availableCharterArea SD card or USB storage on request FAT32 or EXT4 formatted.Protection: <th< td=""><td></td><td></td><td>Communication Channel</td><td></td></th<>			Communication Channel	
Sampling Rate: Bandwidth:Up to 2000 (or 5000) spsInternal Iandine modem* External GSM modem*Bandwidth:DC to 1000 Hz standard / Others*.External GSM modem*Sensor Interface SiM Configuration:fora-OVPS Mounted at the back of the fora rack up to 12 SiMs per one rackExternal UMTS/3G modem*Channels:3 channels per SiM up to 12 CM per schUser InterfaceInput Signal:20 VDC or 10 VDC differential 2.5 VDC 2: 52 VDC Single ended 0 - 20 mA current loopUser InterfaceSensor Power:same as DC Power to 3 or 24* VDC (specify at order)Air intuitive web interface is available for easy configuration with any web browser. Alternatively the configuration file in XML format can be edited on site through the instrument console, exchanged by replacing the memory card, remotely from a server or through SSH. Although the configuration file can be manually edited at any time, a tool is provided to edit it securely.Data Recording Type:Continuous and/or event basedAiarms:4 or 8 independent relay contacts for trigger alarm and/or error (NO and NC contacts available)TypeLevel or STA/LTA trigger Pre-event-Time:1 to 7200 seconds, typicalRelay Hold-On:1 to 60 seconds (User programmable)Data Stream Protecci:GSBU, SeedLink (Earthworm compatible)Relay Hold-On:1 to 50 seconds (User programmable)Data Stream Protecci:GSBU, SeedLink (Earthworm compatible)Relay Hold-On:1 to 50 seconds (User programmable)Size and Type:Internal B de GB built in SSD hard drive Higher capacity available on request FAT32 or EXT4 formatted.Max voltage: </td <td></td> <td></td> <td></td> <td></td>				
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Removable SD card or USB storage on request       Housing:       Various fixed or portable housings available on request         FAT32 or EXT4 formatted.       Protection:       Housings with variable protection available	<b>71</b> *	Higher capacity available on request		· • • • •
Protection: Available on request Protection: Housings with variable protection available		Removable SD card or USB storage on request		Various fixed or portable housings
			Protection:	•

## Specifications

#### Overview

fora is a 19" rack module consisting of Slot-in Modules (SiMs) inserted into vertical slots.

Each fora rack is expandable up to 36 channels and by combining several fora systems, hundreds of channels can be monitored.

System parameters of the fora are stored in the non-volatile system

★: optional



on request

# Central Data Acquisition System

Recording format:

Management:

Power

CR series Intelligent management of memory card

capacity using policies as per file type and ring buffer capacity specification.

miniSEED, or with extended information

encapsulated into blockette 2000\*.