



Nature 4.0

Nature 4.0 Società Benefit S.r.l.
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PRODUCTS	VERSION	PRICE (EURO)
TT-Cyber <ul style="list-style-type: none"> Monitoring Tree functions (1hour sampling rate) Transpiration (sap flow) Spectrometer for canopy light transmission 28 bands (410-940nm) Radial growth (accuracy\pm 10 μm -resolution 0.5 μm) Stem 3D position (for tree stability studies) \pm 0.05 ° Air Temperature (-10 to +85°C \pm1°C max) and Humidity (0 to 90 % \pm5% Typ.) Flash Memory for data storage 16Mbyte Probe forest included 	<ul style="list-style-type: none"> LoRa module 	420
	<ul style="list-style-type: none"> NB-IoT module 	510
TT-Cyber Mini Probe	<ul style="list-style-type: none"> Triple probe suitable for small diameter woody crops – length 8 mm – diameter needle 2mm – spacing 7,5 mm 	40
TT-Cyber Probe Forest	<ul style="list-style-type: none"> Triple probe – length 29 mm – diameter needle 2mm – spacing 7,5 mm 	15
TT-Cyber G Gyroscopic <ul style="list-style-type: none"> 3D position of stem or branch (application for stability warning in urban environments) Air temperature and humidity PANASONIC Battery included 	<ul style="list-style-type: none"> LoRa module 	150
TT-Cyber R Radiation <ul style="list-style-type: none"> Spectrometer 28 bands (410-940 nm) Air Temperature (-10 to +85°C \pm1° C max) and Humidity (0 to 90 % \pm5% Typ.) EB 1 Battery pack included It can be placed outside the canopy to be used as reference for solar radiation 	<ul style="list-style-type: none"> LoRa module 	370
	<ul style="list-style-type: none"> NB-IoT module 	405
TT-Cyber C Carbon <ul style="list-style-type: none"> Autonomous dendrometers Capturing and monitoring radial growth Accuracy\pm 10 μm -resolution 0.5 μm 	<ul style="list-style-type: none"> LoRa module 	225
	<ul style="list-style-type: none"> NB-IoT module 	290



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PRODUCTS	VERSION	PRICE (EURO)
TT-Cyber S Soil <ul style="list-style-type: none"> • Soil temperature and humidity (capacitance probe) • Air Temperature and Humidity • Flash memory for data storage 16Mbyte • SAFT Battery pack included 	<ul style="list-style-type: none"> • LoRa module 	245
	<ul style="list-style-type: none"> • NB-IoT module 	275
TT-Cyber W Water <ul style="list-style-type: none"> • Transpiration (sap flow) 	<ul style="list-style-type: none"> • LoRa module 	210
	<ul style="list-style-type: none"> • NB-IoT module 	245
TT-Cyber EB Power <ul style="list-style-type: none"> • Battery pack 	<ul style="list-style-type: none"> • High capacity 30000mAh power bank (Polymer Lithium Ion) with voltage protection controller 	130
TT-Cyber CH Charger	<ul style="list-style-type: none"> • Fast charger for 10 battery packs 	460
TT-Cyber CL Cloud <ul style="list-style-type: none"> • LoRa Wan Gateway 	<ul style="list-style-type: none"> • LoRaWan gateway protocol at 868 MHz with external antenna • Modem GPRS QUADBAND (SIM included: 500 MB free) • WiFi connection/LAN (as alternative to GPRS if available) on request 	815
Solar Kit for Cloud	<ul style="list-style-type: none"> • Solar Panel 80 W • Charger + controller MPPT • Battery 20 A/h • Box IP67 • Mounting Brackets • Pole 	530

- **LoRa module** for data transmission. Typical range of transmission (1-3km in urban and 0.6 -1km in forest environment. It can reach >10Km in case of clean line of sight. (TT-Cyber Cloud required)
- **NB-IoT module** is a low-power wide-area network (LPWAN) radio technology standard developed by 3GPP. Sim card 500 Mbyte of LTE traffic.