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COLLABORATIVE THINGS

GenPro 300e

SMS-Données-Voix-Application M2M-2G-3G
SMS-Data-Voice-M2M Application -2G-3G

Le modem **GenPro 300e**, piloté par vos équipements RS232 / USB, vous donne un accès simple et fiable à Internet en environnement industriel.

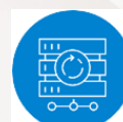
*The modem **GenPro 300e**, associated to your RS232/USB equipment, provides you a simple and reliable access to the Internet, in an industrial environment.*



**Interconnexion
d'équipements**
*Equipment inter-
connection*



**Supervision,
Alertes SMS**
*Monitoring,
SMS alerts*



**Panneaux
d'affichage**
Display panels



Bornes d'accès
Access points



Bornes de recharge
Charging points

GenPro 300e

Caractéristiques techniques / Technical Characteristics



Connectivité / Connectivity

- 2G (SMS, CSD, GPRS)
850/900/1800/1900 MHz
- 3G (SMS, UMTS, HSPA)
800/850/900/1700/1900/2100 MHz
- Débit/Rate : DL 7.2 Mbps / UL 5.76 Mbps

Interfaces / Interfaces

- Connecteur SMA-F / SMA-F connector
- RS232 (Sub-HD 15F) Data/Voice
- USB 2.0 (mini)
- Mini SIM (push-pull)
- 1 LED
- Alim./power supply : 7.2-32 Vdc
(connecteur micro-Fit/micro-Fit connector)

Environnement / Environment

- Température/Temperature : $-20 < T^{\circ}\text{C} < +60$
- Humidité/Humidity : HR < 70% @ 55°C
- Consommation/Consumption @ 12Vdc :
Moyen/Average : 290 mA (3G)
Veille/Shut down : 0.7 mA

Boîtier / Casing

- Dimensions/Size : 25.5 x 73 x 54.5 mm
- Poids/Weight : 86 gr
- Aluminium/Aluminum
- IP 31

Certifications / Approvals

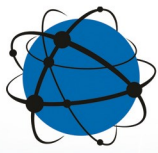
- CE
- Reach - N° 1907/2006 SVHC163
- RoHS - Directive 2011/65/EU

Fonctions / Functions

- Commandes AT / AT commands
- Stack IP embarquée / Embedded IP stack
- Compatible / Compliance :
Windows® XP/Vista/7/8/10 (32/64 bits)

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COLLABORATIVE THINGS

GenPro 325e

3G/RS232/RS485/SMS/Données/3 entrées - 1 sortie
3G/RS232/RS485/SMS/Data/3 inputs - 1 output

Le **GenPro 325e** est un boîtier de transmission de données compact et industriel, opérant sur le réseau **3G**. Grâce à son offre complète de logiciels embarqués, il couvre un grand nombre d'applications métiers :

*The **GenPro 325e** is a 3G compact and industrial product used for data transmission. It covers a wide range of applications thanks to its embedded software possibilities:*



Logiciel embarqué EasePro / EasePro application

- Gestions des entrées - sortie / *Inputs output management*
- Mode enregistreur d'états / *Datalogger mode*
- Transmission IP : *UDP / TCP / FTP / SMTP*
- Alertes SMS / *SMS alerts*



Logiciel embarqué EaseIP / EaseIP application

- Interconnexion d'équipements RS232 & RS485 / *Interconnection of RS232 & RS485 equipment*
- Prêt pour la migration tout IP / *Ready for all IP migration*
- Transmission CSD & IP : *UDP / TCP / FTP / SMTP*
- *TCP Server & dynamic DNS mode*
- Mode connexion permanente / *Permanent connection mode*



Logiciel embarqué EaseNTRIP/ EaseNTRIP application

- Passerelle RTK diffusant des données de correction centimétrique vers un équipement de géolocalisation RS232 compatible RTK.
RTK gateway (NTRIP protocol) sending centimeter correction data to a RTK compatible RS232 geolocation equipment.
- *NTRIP RTCM-104 2.1 / 2.3 / 3.0*

Note : Pour plus de détails consulter les datasheet des applications embarquées
Note: For further details see the datasheets of the embedded applications



Interconnexion d'équipements RS232 ou RS485

Interconnection of RS232 or RS485 equipment

Télérélevé de stations

Remote data collection of stations

Mesure et alerte de niveaux

Level measurement and alert

Alertes par SMS / SMS alerts

Alerte Maintenance

Maintenance alert

Commande à distance

Remote control

Gestion de panneaux d'affichage

Display panels management

Passerelle 3G RTK / 3G RTK Gateway

GenPro 325e

Caractéristiques techniques / Technical Characteristics

	Matériel / Hardware		Logiciel embarqué / Software				
	GenPro 25e (for comparison)	GenPro 325e	EasePro	EaseIP (S0519)	Transpa- rent (S0502)	NTRIP (S0445)	SDK EGM
Radio							
2G GSM/GPRS (MHz)	850/900 1800/1900	850/900 1800/1900	✓	✓	✓	✓	✓
3G/3G+ (MHz)	NA	800/850/900 1700/1900/2100	✓	✓	✓	✓	✓
Data rates	GPRS Class 10	DL 7.2 UL 5.76 Mbps	✓	✓	✓	✓	✓
Connecteur antenne / Antenna connector	SMA-F	SMA-F	✓	✓	✓	✓	✓
Interfaces							
RS232	1 (Sub-D15 F)	1 (Sub-D15 F)	✓	✓	✓	✓	✓
RS485	NA	✓	NA	✓	NA	NA	✓
OneWire (Micro-Fit)	option	option	NA	NA	NA	NA	✓
Entrée numérique / Digital input (3.5 to 35VDC) Sortie / Output (48VDC - 0,5A)	3 (Micro-Fit) 1 (Micro-Fit)	3 (Micro-Fit) 1 (Micro-Fit)	✓	NA	NA	NA	✓
Entrée analogique / Analog Input 0-10 VDC	option	1	✓	NA	NA	NA	✓
Lecteur carte SIM / SIM card reader (2FF)	1	1	✓	✓	✓	✓	✓
Vocal / Analog voice	Sub-D15 F	NA	NA	NA	NA	NA	NA
Décodage DTMF / DTMF decoding	option	✓	✓	NA	✓	NA	✓
Voyant réseau / LED network status	1	1	✓	✓	✓	✓	✓
Accéléromètre 3 axes / 3-axis accelerometer	option	option	NA	NA	NA	NA	✓
Configuration par SMS / SMS configuration	✓	✓	✓	✓	NA	✓	✓
Alimentation / Power Supply							
Alimentation externe / External power	6.5 to 32 VDC	7.2 to 32 VDC	✓	✓	✓	✓	✓
Batterie interne / Internal backup battery 1A/h	option	option	✓	✓	NA	NA	✓
Mode faible consommation / Low power mode	✓	✓	✓	✓	NA	NA	✓
Autres / Others							
Kit Rail-DIN / DIN-Rail mount kit	option (K002)	option (K002)	✓	✓	✓	✓	✓
T°C en fonctionnement / Operating T°C	-20°C +60°C	-20°C + 60°C	✓	✓	✓	✓	✓
Dimensions (mm)	25 x 73 x 54	25 x 73 x 54	✓	✓	✓	✓	✓
Poids / Weight (g)	90	90	✓	✓	✓	✓	✓
Certifications / Approvals	CE	CE	✓	✓	✓	✓	✓
Garantie / Warranty	2 ans / 2 years	2 ans / 2 years	✓	✓	✓	✓	✓

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COLLABORATIVE THINGS

GenPro 354e

3G/RS232/SMS/Données/ 5 entrées – 3 sorties
3G/RS232/SMS/Data/5 inputs – 3 outputs

Le **GenPro 354e** est un boîtier de transmission de données compact et industriel, opérant sur le réseau **3G**. Grâce à son offre complète de logiciels embarqués, il couvre un grand nombre d'applications métiers :

*The **GenPro 354e** is a **3G** compact and industrial product used for data transmission. It covers a wide range of applications thanks to its embedded software possibilities:*



Logiciel embarqué EasePro / EasePro application

- Gestions des entrées - sortie / *Inputs output management*
- Mode enregistreur d'états / *Datalogger mode*
- Transmission IP : *UDP / TCP / FTP / SMTP*
- Alertes SMS / *SMS alerts*



Logiciel embarqué EaseIP / EaseIP application

- Interconnexion d'équipements RS232 / *Interconnection of RS232 equipment*
- Prêt pour la migration tout IP / *Ready for all IP migration*
- Transmission CSD & IP : *UDP / TCP / FTP / SMTP*
- *TCP Server & dynamic DNS mode*
- Mode connexion permanente / *Permanent connection mode*



Logiciel embarqué EaseNTRIP/ EaseNTRIP application

- Passerelle RTK diffusant des données de correction centimétrique vers un équipement de géolocalisation RS232 compatible RTK. Il peut recevoir l'option double lecteur SIM.
RTK gateway (NTRIP protocol) sending centimeter correction data to a RTK compatible RS232 geolocation equipment. Dual SIM option is also available.
- *NTRIP RTCM-104 2.1 / 2.3 / 3.0*

Note : Pour plus de détails consulter les datasheet des applications embarquées
Note: For further details see the datasheets of the embedded applications



Interconnexion d'équipements RS232

Interconnection of RS232 equipment

Télérèlève de stations

Remote data collection of stations

Mesure et alerte de niveaux

Level measurement and alert

Alertes par SMS / SMS alerts

Alerte Maintenance

Maintenance alert

Commande à distance

Remote control

Contrôle d'accès / Access control

Gestion de panneaux d'affichage

Display panels management

Passerelle 3G RTK double SIM

Dual SIM 3G RTK Gateway

GenPro 354e

Caractéristiques techniques / Technical Characteristics

	Matériel / Hardware		Logiciel embarqué / Software			
	GenPro 54e (for comparison)	GenPro 354e	EasePro	EaselP (S0519)	NTRIP (S0445)	SDK EGM
Radio						
2G GSM/GPRS (MHz)	850/900 1800/1900	850/900 1800/1900	✓	✓	✓	✓
3G/3G+ (MHz)	NA	800/850/900 1700/1900/2100	✓	✓	✓	✓
Data rates	GPRS Class 10	DL 7.2 UL 5.76 Mbps	✓	✓	✓	✓
Connecteur antenne / Antenna connector	FAKRA-D	FAKRA-D	✓	✓	✓	✓
Interfaces						
RS232	3 (Micro-Fit)	3 (Micro-Fit)	✓	✓	✓	✓
RS485	Contact us	Contact us	NA	NA	NA	✓
OneWire (Micro-Fit)	✓	✓	NA	NA	NA	✓
Entrée numérique / Digital input (3.5 to 35VDC) Sortie / Output (48VDC - 0,5A)	5 (Micro-Fit) 3 (Micro-Fit)	5 (Micro-Fit) 3 (Micro-Fit)	✓	NA	NA	✓
Entrée analogique / Analog Input 0-10 VDC Entrée analogique / Analog input 4-20mA	2 (Micro-Fit) option	2 (Micro-Fit) option	✓ ✓	NA	NA	✓ ✓
Lecteur carte SIM / SIM card reader (2FF)	✓	✓	✓	✓	✓	✓
Double lecteur SIM / Dual SIM reader (2FF)	option	option	✓	✓	✓	✓
Vocal / Analog voice	RJ9	NA	NA	NA	NA	✓
Décodage DTMF / DTMF decoding	option	✓	✓	NA	NA	✓
Voyant réseau / LED network status	1	1	✓	✓	✓	✓
Accéléromètre 3 axes / 3-axis accelerometer	option	option	NA	NA	NA	✓
Configuration par SMS / SMS configuration	✓	✓	✓	✓	✓	✓
Alimentation / Power Supply						
Alimentation externe / External power	7.2 to 32 VDC	8 to 32 VDC	✓	✓	✓	✓
Batterie interne / Internal backup battery 1A/h	✓	✓	✓	✓	NA	✓
Mode faible consommation / Low power mode	✓	✓	✓	✓	NA	✓
Divers / Others						
Kit Rail-DIN / DIN-Rail mount kit	option (K002)	option (K002)	✓	✓	✓	✓
T°C en fonctionnement / Operating T°C	-20°C +60°C	-20°C + 60°C	✓	✓	✓	✓
Dimensions (mm)	95 x 92 x 40	95 x 92 x 40	✓	✓	✓	✓
Poids / Weight (g)	220	220	✓	✓	✓	✓
Certifications / Approvals	CE	CE	✓	✓	✓	✓
Garantie / Warranty	2 ans / 2 years	2 ans / 2 years	✓	✓	✓	✓

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GENPRO 400e

4G INDUSTRIAL CELL MODEM (LTE CAT. 4)

This cellular modem is designed to transmit serial data (RS232 or USB) in a simple and transparent way. It gives you reliable access to the Internet in an industrial environment based on 20 years of experience with the GenPro range.

2G

3G

4G

RS232

USB

Réf. : N1103A7



Low consumption

180 mA on average in 4G
0.45 mA in standby



Compact

73 x 54.5 x 25.5 mm



Robust

Aluminium case
IP 31



Interconnection of equipment

Monitoring software
Remote equipment



Supervision

SMS Alerts



Optimal flow

Technology dual antennas
3G Diversity and 4G MIMO

2 years warranty

CE RoHS 

FEATURES

• Interconnection of equipments

Billboards, charging stations, automatic access points, product dispensers, etc.

• Remote reading of meters, sensors, etc

• SMS alerts

• Supervision of an industrial facility

PACK DELIVERED CONTAINS

- 1 GenPro 400e
- 1 power cable 2 wires
- 1 USB 2.0 cable Type A / mini-B
- 2 mounting clips
- 1 operating instructions manual

Option: kit rail DIN (réf. K002)

Option: antenna 4G (recommended réf. 636Z232160)

USE CASE EXAMPLES



Data transmission



Remote metering



Internet Access

GenPro 400e is a 4G industrial modem (LTE Cat. 4). It allows data transmission without any processing within the device. Specifically designed to address the issue of collecting and sending data of all kinds for professionals. GenPro 400e can be used for many applications, such as remote metering or Internet access. Robust and compact, this case allows for equipment interconnection and supervision with SMS alerts.

TECHNICALS SPECIFICATIONS

Interfaces

Antennes	2 SMA-Female connectors
Alimentation	+7.2 to 32 VDC (micro-FIT 4 pts connector)
Port série	1 RS 232 (Sub-D 15 pts female)
Port USB	2.0 Type A / mini-B
SIM	Mini SIM 2FF format
LED	Cellular connectivity

Connectivity

2G	GSM/ GPRS/ EDGE 850/900/1800/1900 MHz
3G	UMTS (HSDPA cat 24, UMTS HSUPA cat 6) 850/900/1900/2100 MHz
4G	LTE (FDD cat 4) Bands 20 (800 MHz), 5 (850 MHz), 8 (900 MHz), 3 (1800 MHz), 1 (2100 MHz), 7 (2600 MHz) Data rate up to 150 Mb/s DL, 50 Mb/s UL

Technicals specifications

Dimensions	73 x 54.5 x 25.5 mm
Net Weight	86 g
Sealing	IP 31
Matériau	Aluminium
Fixations	2 Mounting clips Optional Kit rail Din (ref K002)
Operating T°	-20°C < T° < 60°C
Storage T°	-40°C < T° < +85°C
Non-condensing humidity	HR < 70% @ +55°C
Power type	7.2-32 Vdc / 15W max.
Consumption	180 mA average in 4G 0.45 mA en veille
Atmospheric pressure	700 hPa to 1060 hPa (-400 m to 3000 m)

Certifications

Reach, RoHS
CE

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GENPRO 425e

4G INDUSTRIAL CELL MODEM (LTE CAT. 4)

This 4G modem transmits data series (RS232 / RS485) or contact status following IP Standard protocols or by SMS in a quick and simple way. Thanks to its comprehensive embedded software offering (EasePro, EaseIP, EaseNTRIP), it covers a large number of business applications.

2G

3G

4G



Low consumption

LowPower mode (EaseIP) : Imoy
= 2mA 4G / attached mode : Imoy
= 40 mA 4G / data transfer mode :
Imoy = 215 mA



Robust

Aluminium case
IP 31



Monitoring

Managing Inputs/Output
SMS Alerts
Remote control of equipment



Compact

73 x 54.5 x 25.5 mm



Embedded Software

EasePro: Ref N1103A8-EPro
EaseIP: Ref N1103A8-S0519E
EaseNTRIP: Ref N1103A8-S0445E
SDK (dev. EGM)



Optimal flow

4G LTE CAT.4 network

4G

2 years warranty

CE RoHS 

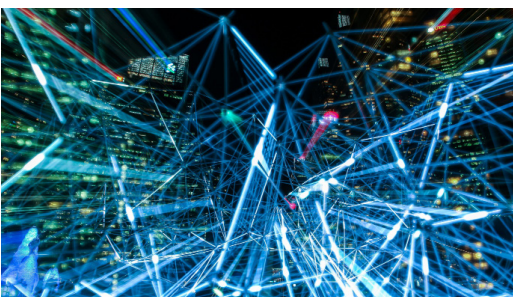
FEATURES

- **Interconnection of equipments (EaseIP)**
Billboards, charging stations, automatic access points, product dispensers, etc.
- **Monitoring of weather station, energy meter, sensor, etc. (EaseIP)**
- **Measurement and threshold alert (EasePro)**
- **Transmission of SMS alert (EasePro)**
- **Remote control of equipment (EasePro)**
- **Maintenance alert (EasePro)**
- **4G RTK Bridge (EaseNTRIP)**

PACK DELIVERED CONTAINS

- **1 GenPro 425e modem with an embedded software**
- **1 cord 4 wires (alim - 1 IN - 1 OUT) (Ease Pro)**
- **1 cord 2 wires (2 IN) (Ease Pro)**
- **2 mounting clips**
- **1 operating instructions manual**
- **Options:**
 - Antenna 4G (recommended ref. 636Z232160)
 - Serial cable (ref. 4404000806)
 - Power supply (ref. 0471210705)
 - Kit rail DIN (ref. K002)

USE CASE EXAMPLES



Permanent data communication



Remote metering



Radio guidance

GenPro 425e is an industrial cellular modem operating on 2G / 3G / 4G (LTE Cat 4) networks. It transmits data series (RS232 or RS485) or contact status following IP protocols (TCP / UDP / FTP) or by SMS in a quick and simple way. The compatible embedded software can cover a wide range of applications: permanent data communication, event alert, remote reading of meter, RTK data transmission for radio guidance, remote control, etc. Specifically designed to address the issues related to collection and transmission of all kinds of data this device is configurable locally and remotely.

TECHNICALS SPECIFICATIONS

Interfaces

Antenna	1 SMA-Female connector
Power supply	+7.2 to 32 VDC (micro-FIT 4 pts connector)
Serial port	1 RS 232 (Sub-D 15 pts female) 1RS 485 2 points connectors (EaselP)
Digital input / output	1 analog input 0-10V (EasePro) 2 opto-coupled digital inputs 3.5 to 35VDC (EasePro) 1 logic output «open collector» 500mA 0-48VDC (EasePro)
SIM	Mini SIM 2FF format
LED	Cellular connectivity
Voice service	DTMF decoding (EasePro)

Spécifications techniques

Dimensions	73 x 54.5 x 25.5 mm
Net Weight	90 g
Material	Aluminium
Fixations	2 mounting clips Optional kit rail DIN (ref K002)
Operating T°	-20°C < T° < +60°C
Storage T°	-40°C < T° < +85°C
Non condensing humidity	HR < 70% @ +55°C
Atmospheric pressure	700 hPa à 1060 hPa (-400 m à 3000 m)
Power type	7.2-32 Vdc / 15W max.
Consumption @ 12VDC	LowPower mode (EaselP) : Imoy = 2mA 4G / attached mode : Imoy = 40 mA 4G / data transfer mode : Imoy = 215 mA

Connectivity

2G	GSM/ GPRS/ EDGE 850/900/1800/1900 MHz
3G	UMTS (HSDPA cat 24, UMTS HSUPA cat 6) 850/900/1900/2100 MHz
4G	LTE (FDD cat 4) Bands 20 (800 MHz), 5 (850 MHz), 8 (900 MHz), 3 (1800 MHz), 1 (2100 MHz), 7 (2600 MHz)

Certifications

Reach, RoHS

CE

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