



boss one 

Utente
Password
Login



boss one

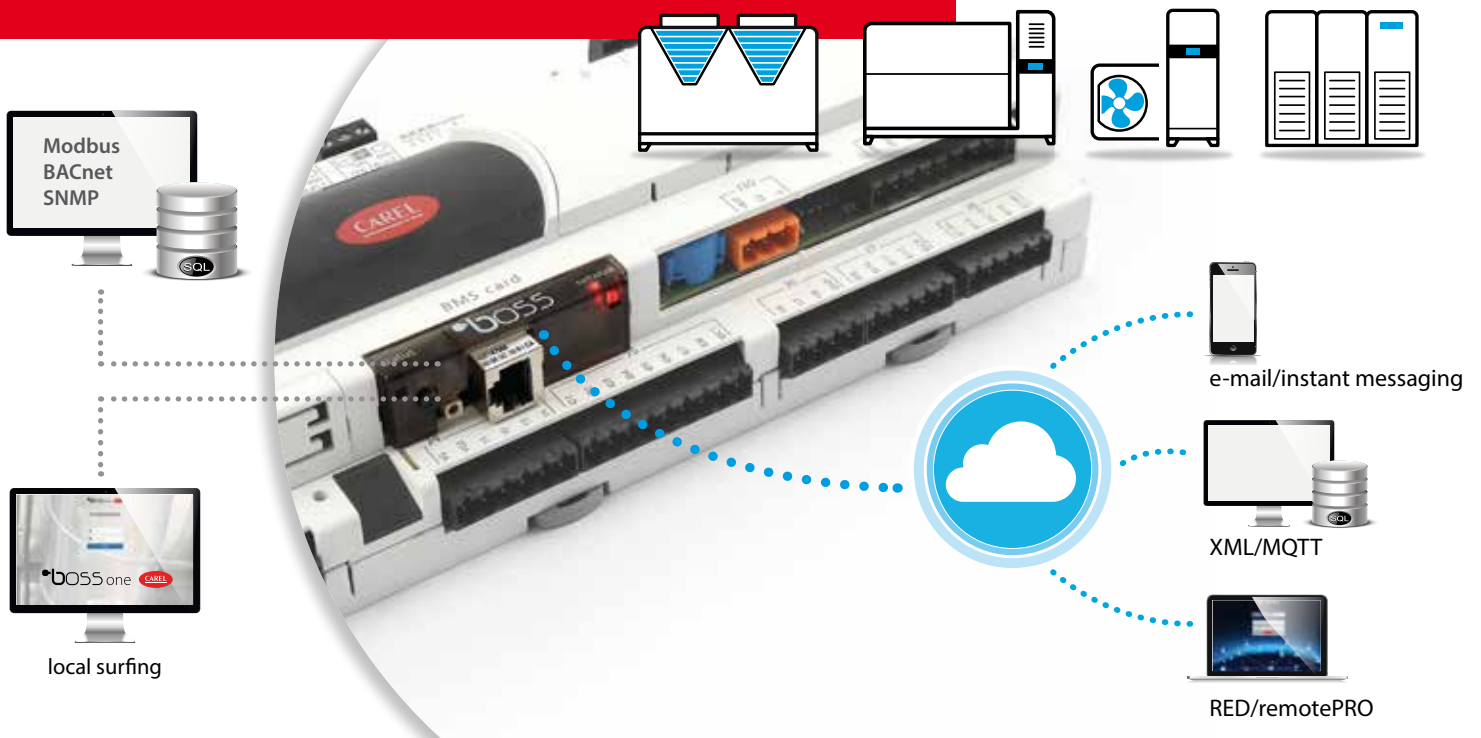
Connectivity, security and flexibility for HVAC/R units

boss one, the boss of a single device

All the usability and reliability of the boss family for managing the connectivity of a single HVAC/R unit.

- Responsive web interface, viewable from mobile devices;
- Alarms via email and instant messaging;
- Graphs and log reports with up to 50 variables;
- Management of Modbus, BACnet and SNMP v3 field protocolsM
- Integration with CAREL Cloud solutions;
- Management of XML and MQTT data exchange protocols;
- Remote update of application software.

boss one is the web interface for CAREL programmable controllers used to manage, through graphic interaction, the parameters and status of HVAC/R units, coordinate alarm signals and share variables and parameters with the BMS and cloud solutions. Access to and settings of all these features are managed and protected in accordance with the latest IoT security standards.



Connectivity

Standard communication protocols to field devices and the cloud, so as to interact with a wide range of external centralised systems.



Security

Encrypted communication protocols and management of access credentials in accordance with the latest standards.



Flexibility

The data to be shared with external centralised systems and the information to be displayed on the fully user-customisable graphic interface can be configured.

Connectivity

Integration with BMS systems

boss one, through management of the Modbus TCP server, BACnet server and SNMP agent protocols (v1, v2 and v3), can share the information acquired by the CAREL controller to all of the main high-level BMS systems.

Integration with CAREL Cloud systems

boss one allows automatic synchronisation of data and alarms with the CAREL RED and RemotePRO Cloud

systems, to monitor the situation in all of the systems on a single interface. Centralised management of the systems makes it possible to increase reliability through analysis of alarms and planning of service activities.

Integration with MQTT/XML Cloud systems

boss one can use the MQTT and XML protocols to share data and alarms in real time with cloud systems based on these protocols.

System under control

boss sends emails or instant messages in the event of alarms, as well as reports, ensuring the status of the unit is under control at all times, even on the move from a smartphone.

Security

Secure data and navigation

boss one uses the HTTPS protocol to transmit its graphic interface, thus offering confidential data transfer via the web to an external device. Data transmission to external systems via the MQTT and XML protocols is also encrypted. A custom Unix operating system guarantees greater system reliability.

User security

boss one offers access management through users and profiles, with credentials that can also be centralised using systems based on the LDAP protocol. All accesses and actions performed by the various users are recorded and available at any time. Features such as password and password expiry security control and blocking of users in the event of multiple incorrect password entry attempts are always enabled.

Flexibility

Protocol configuration

With boss one, the index and all of the properties of each individual variable can be selected after configuring the protocols from the web interface. Navigation: all of the boss one pages can be navigated from a mobile device, both those for programming and those for everyday operation. The pages automatically adapt to the device they are being displayed on, minimising the need for users to resize pages and scroll the contents.

Customisation

boss one makes it easy to customise the user interface, using the integrated features on the web pages to change images/logos and the possibility to create maps with the c.web tool.

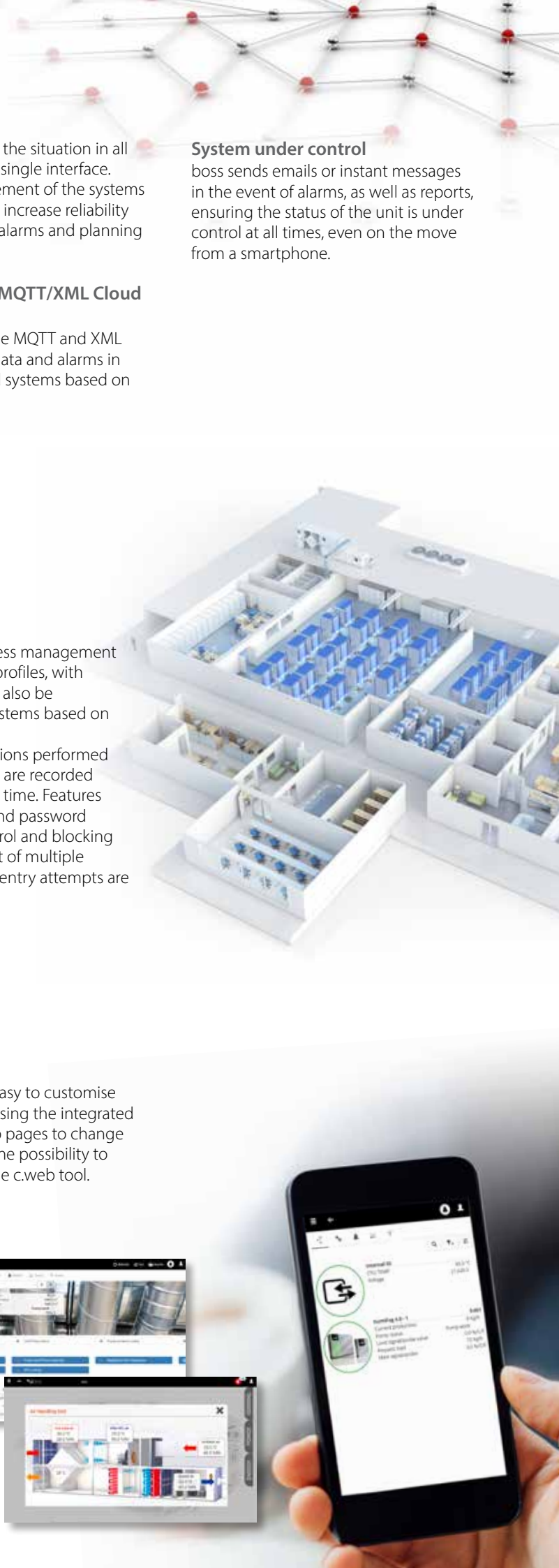


Table of part numbers and features

Feature	boss one gateway (PCOG***WE0)	boss one gateway (PCOD***WE0)
Responsive pages	YES	YES
Customised graphics using SVG technology (via c.web tool)	YES	YES
Import Device Creator models	YES	YES
Web connection with encrypted protocol (HTTPS)	YES	YES
Modbus server, BACnet server and SNMP Agent protocols	YES (already enabled)	YES (can be enabled using one of the 2 credits available)
MQTT, XML server and XML push	NO	YES (can be enabled using one of the 2 credits available)
Data synchronisation with RemotePRO	NO	YES (already enabled)
Send emails	NO	YES
Send instant messages (Telegram)	NO	YES
Scheduled activity management	NO	YES
Variable log	NO	YES (50 variables)
Automatic/manual reports in PDF/CSV format	NO	YES
Custom logic development by customer	NO	YES (can be enabled using one of the 2 credits available)
Logical devices/logical variables	NO	YES (can be enabled using one of the 2 credits available)
HVAC unit free cooling optimisation	NO	YES (can be enabled using one of the 2 credits available)
Air conditioning unit on/off optimisation	NO	YES (can be enabled using one of the 2 credits available)
Optimised light-on management based on outside light	NO	YES (can be enabled using one of the 2 credits available)
Languages available	Italian, English, German, French, Spanish, Portuguese, Russian, Turkish, Chinese, Polish, Danish, Swedish, Japanese, Hungarian, Dutch, Korean	

Headquarters

CAREL INDUSTRIES HQs
Via dell'Industria, 11
35020 Brugine - Padova (Italy)
carel@carel.com



HygroMatik GmbH

Lise-Meitner-Straße 3
24558 Henstedt-Ulzburg - Germany
hy@hygromatik.de

RECUPERATOR

Via Valfurva 13
20027 Rescaldina (MI), Italy
customercare@recuperator.eu

ENGINIA S.r.l.

Viale Lombardia, 78
20056 Trezzo Sull'Adda (MI), Italy
commerciale@enginasrl.com

For more information

CAREL Asia - www.carel.hk
CAREL Australia - www.carel.com.au
CAREL Central & Southern Europe - www.carel.com
CAREL Czech & Slovakia - www.carel.cz
CAREL spol. s.r.o.
CAREL Deutschland - www.carel.de
CAREL China - www.carel-china.com
CAREL France - www.carelfrence.fr
CAREL Korea - www.carel.kr
CAREL Ibérica - www.carel.es
CAREL Ireland - www.carel.ie
FarrahVale Controls & Electronics Ltd.
CAREL Italy - www.carel.it
CAREL India - www.carel.in
CAREL Japan - www.carel-japan.com

CAREL Mexicana - www.carel.mx
CAREL Middle East - www.carelae.com
CAREL Nordic - www.carelnordic.se
CAREL Poland - www.carel.pl
ALFACO POLSKA Sp z o.o.
CAREL Russia - www.carelrussia.com
CAREL South Africa - www.carel.com
CAREL Sud America - www.carel.com.br
CAREL Thailand - www.carel.co.th
CAREL Turkey - www.carel.com.tr
CFM Sogutma ve Otomasyon San. Tic. Ltd.
CAREL U.K. - www.careluk.com
CAREL U.S.A. - www.carelusa.com
CAREL Ukraina - www.carel.ua
CAREL Canada - www.enersol.ca
Enersol Inc.

CAREL

To the best of CAREL INDUSTRIES S.p.A. knowledge and belief, the information contained herein is accurate and reliable as of the date of publication. However, CAREL INDUSTRIES S.p.A. does not assume any liability whatsoever for the accuracy and completeness of the information presented without guarantee or responsibility of any kind and makes no representation or warranty, either expressed or implied. A number of factors may affect the performance of any products used in conjunction with user's materials all of which must be taken into account by the user in producing or using the products. The user should not assume that all necessary data for the proper evaluation of these products are contained herein and is responsible for the appropriate, safe and legal use, processing and handling of CAREL's products. The information provided herein does not relieve the user from the responsibility of carrying out its own tests, and the user assumes all risks and liabilities related to the use of the products and/or information contained herein. © 2021 CAREL INDUSTRIES S.p.A. All rights reserved.