

PRODUCTS & SERVICES

MODERN COMFORTS

A wide range of technologies can be installed in AMAC Aerospace's made-to-measure cabins, to support clients' working and entertainment needs

Flying privately comes with the freedom to arrange travel itineraries as efficiently as possible. Business aviation travellers do not have to go through time-consuming procedures at airports. Yet, there is more to it than saving time. On a business jet, passengers have access to a welcoming, comfortable space offering a perfect working/leisure infrastructure.

"Our clients are used to state-of-the-art technology in their offices as well as in their homes," says Roger Sandmann, head of engineering and certification and Compliance Verification Engineer (CVE), Design Organization, at AMAC Aerospace. "They would like to have the same quality on board their aircraft."

At AMAC Aerospace's headquarters in Basel, Switzerland, the engineers need to enable a comprehensive list of requested activities: holding a video or conference call, sending and receiving large files, watching the latest movie or a live sports broadcast. "Additionally, some of our clients ask for perfect gaming environments," says Sandmann.

SCREEN TRENDS

Be it for business or leisure, modern 4K screens and OLED technology offer almost infinite contrast ratio, gorgeous colours and unbeatably dark black levels. The latest-generation screens come with a short input lag, a fast refresh rate and response time and prevent stuttering by using screen tearing adaptive synch-tech. The next trend is around the corner – some clients have already signalled interest for 8K. "The consumer technology market is a very dynamic and fast-changing market,"



AMAC Aerospace has engineered an STC for the installation of wireless charging stations in various aircraft types

says Sandmann. "A few years ago, curved screens were the new black. Nowadays, nearly no-one is asking for them anymore."

The contrary is true for features such as moving maps – AMAC Aerospace's engineers register vivid interest in them. Access to live information at any time of the journey is a sought-after feature regularly implemented in private aircraft. Li-fi technology is also in high demand; AMAC Aerospace says because it allows a more potent bandwidth for high-data transfer, while being bug-proof. This is highly relevant for head-of-state and corporate aircraft, but private clients are also showing interest in this technology.

KA- AND KU-BAND

For all these features, on the ground and in the air, the prerequisite is connectivity. Together with the client, AMAC Aerospace's engineers first evaluate needs and options. Depending on the type of aircraft, as well

as on the planned itineraries, AMAC Aerospace's technicians install a Ka-band or Ku-band antenna.

Ease of use is another important criterion. Personal devices need to connect easily with the onboard network. Steering consoles are designed to be user-friendly and must be located intelligently at different points in the cabin.

Meanwhile, noise levels have gained more attention. In its latest green completion project, AMAC Aerospace's engineers reached a low level of 45db. The company says the perfect audio experience is created with lightweight speakers, discreetly integrated into the cabin interior, or the use of earphones, which connect via Bluetooth. ☒

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