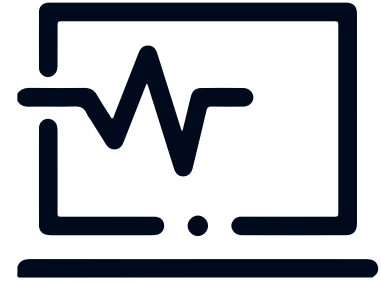


WHY MEDICAL GRADE?

EMI Reduction

The most compelling factor in choosing a Medical Grade computer is reducing EMI. **Tangent Medical Grade computers are UL60601-Certified.** Certification ensures EMI compliance.

The Food and Drug Administration (**FDA**), Center for Devices and Radiological Health (**CDRH**) and Association for the Advancement of Medical Instrumentation (**AAMI**) have established **recommendations to minimize** the risks associated with **medical device EMI** and promote electromagnetic compatibility (EMC) in healthcare facilities. **Medical computers are medical devices.**



The clinical and biomedical engineers and Safety Committee within a healthcare facility should ensure that all medical devices purchased reduce EMI.



FDA/CDRH RECOMMENDATIONS FOR EMC/EMI IN HEALTHCARE FACILITIES¹



Manage

the electromagnetic environment, RF transmitters and all electrical and electronic equipment, including **medical devices**, to **reduce the risk of medical device EMI** and achieve EMC



Coordinate the purchase,

installation, service, and management of all electrical and **electronic equipment** used in the facility to achieve EMC



Educate

healthcare facility staff, contractors, visitors, and patients about EMC and EMI and how they can recognize medical device EMI and help **minimize EMI risks**



Establish and implement written policies and procedures

that document the intentions and methods of the healthcare institution for **reducing the risk of medical device EMI** and achieving EMC

¹FDA and Center for Devices and Radiological Health, "CDRH Recommendations for EMC/EMI in Healthcare Facilities", <https://www.fda.gov/radiation-emitting-products/electromagnetic-compatibility-emc/fdacdrh-recommendations-emcemi-healthcare-facilities>, May 24, 2023.



GUIDANCE ON ELECTROMAGNETIC COMPATIBILITY OF MEDICAL DEVICES FOR CLINICAL/BIOMEDICAL ENGINEERS²

AAMI TIR 18 Summary Recommendations

Because of their responsibility for the safe functioning of patient care equipment, clinical/biomedical engineers should be the focal point for EMC, EMI mitigation, and EMC/EMI education/training within the health care organization.



Electrically-powered medical devices purchased for use in the facility should meet EMC standards.



EMC/EMI should become a permanent responsibility of the health care organization's Safety Committee.

Purchase, installation, service, and management of **all equipment (medical, communications, building systems, and information technology)** used in the facility **should be coordinated to assure EMC**. Clinical/biomedical engineering, facility management, information systems, materials management, and risk management personnel should all be aware of the possibility for equipment interactions and the need for coordination.

²Guidance on Electromagnetic Compatibility of Medical Devices for Clinical/Biomedical Engineers. AAMI TIR 18-1997. Arlington, Virginia: Association for the Advancement of Medical Instrumentation; 1997.